Hull & associates, inc.

December 9, 2009

Mr. Richard Goehlert
United States Environmental Protection Agency, Region 1
1 Congress Street, Suite 100
Boston, MA 02114-2023

RE: Results of the Indoor Air Sampling Event; South Municipal Water Supply Well Superfund Site in Peterborough, New Hampshire; NHB033.200.0087.

Dear Mr. Goehlert:

Pursuant to discussions among the United States Environmental Protection Agency (USEPA), the New Hampshire Department of Environmental Services (NHDES), New Hampshire Ball Bearings, Inc. (NHBB), and Hull & Associates, Inc. (Hull), Hull has prepared this correspondence presenting the analytical results of the October 2009 Indoor Air sampling event for the evaluation of vapor intrusion potential at the NHBB and Staff Development for Educators (SDE) structures at the South Municipal Water Supply Well Superfund Site in Peterborough, New Hampshire (Site). Figure 1 presents a Site plan.

The air samples were collected on October 30, 2009 by Hull personnel in accordance with the *Vapor Intrusion Screening and Work Plan Letter for Indoor Air Sampling Strategy (Hull document NHB033.200.0071Rev1 dated November 11, 2008* and the *Work Plan Letter for Vapor Intrusion Screening at the Residence and Staff Development for Educators Building (Hull Document NHB033.200.0075 dated July 21, 2009*).

The vapor intrusion screening discussed in the latter document with respect to the residential property located in the dilute plume has not been completed. The residence was to be evaluated through the installation and sampling of groundwater wells and comparing the results to non-truncated groundwater screening numbers developed by the USEPA. At this time, the property owner has denied NHBB and Hull access to the property.

BACKGROUND

Since 1994 NHBB has operated a multi-well groundwater extraction and treatment system at the Site (Plate 1) pursuant to the requirements of the 1989 Record of Decision (ROD) and CERCLA Administrative Order # I-90-1074 (Order). The extraction system initially operated to remediate to health-based standards all groundwater impacted by volatile organic compound (VOC) sources (primarily chlorinated solvents) originating from the NHBB property. In 1997 USEPA issued an Explanation of Significant Differences (ESD) which recognized the technical impracticability of remediating all groundwater to health-based standards, in particular due to the presence of dense non-aqueous phase liquids (DNAPL) at locations within aquifer materials on NHBB property and established a requirement for containment of groundwater, such that contamination would not migrate beyond NHBB's property boundaries. Since that time, concentrations of VOCs have been detected in groundwater samples collected along and beyond the compliance boundary. The detected constituents include tetrachloroethene (PCE),

trichloroethene (TCE), 1,1-dichloroethene (1,1-DCE), 1,1-dichloroethane (1,1-DCA) and 1,1,1-trichloroethane (1,1,1-TCA). In addition, groundwater is monitored for other common breakdown constituents of PCE and TCE, including cis-1,2-dichloroethene (CIS), trans-1,2-dichloroethene (TRANS) and vinyl chloride (VC), but these constituents have been very rarely, if ever, detected at locations beyond NHBB's property boundary. As the performance of the containment system continues to deteriorate, NHBB has evaluated alternative remedial options which have recently been presented to the USEPA in a focused feasibility study (FFS). As part of the FFS evaluations, the conceptual model for the Site identified vapor intrusion as a potentially complete exposure pathway and as such, discussions between USEPA, NHDES,, NHBB and Hull have determined that further investigations are needed to evaluate the exposures from this potentially complete pathway.

The NHBB building is located over a known source area where groundwater concentrations are indicative of residual source mass and where free phase DNPAL has been detected. Two buildings are located proximate to the leading edge of the groundwater plume east of Route 202 as depicted on Figure 1, which shows locations of these structures and an outline of the generalized groundwater VOC plume. The residential structure (#1) is located above the plume. Structure #2 is a commercial structure, the southern end of which is currently located over the leading edge of the plume. The original commercial building footprint was located at least 200 feet north of the dilute plume. The original building housed Valley Chevrolet Olds, which was owned by Robert Korpi prior to Staff Development for Educators (SDE). According to the waste notification form contained in NHDES One-Stop records, the facility was a generator of D001 and F002/F004 wastes (see Appendix A). SDE purchased the building from Korpi and in 2004 began construction on a large warehouse addition to the south side of the existing structure. The expansion caused portions of the new building to be located proximate or over portions of the plume. In the southwest quadrant of the warehouse addition, an approximate 5,000 sq. ft. storage space is constructed with a dirt floor; a small office is also located within the storage space.

To assess the potential for vapor intrusion from the VOC plume, sub-slab vapor data from the NHBB property and groundwater analytical data in dilute portions of the plume were evaluated and compared to screening numbers obtained from the NHDES Vapor Intrusion Guidance, Table 1 Revised February 2007.

As part of the work scope associated with the source area delineation project (2006-2007), high concentrations of VOCs were detected in groundwater and sub-slab vapor samples obtained from locations advanced within the Microball and Highbay areas of the NHBB manufacturing facility. The detected VOC concentrations in both groundwater and sub-slab samples were in excess of NHDES screening values. Tables 1 and 2 provide analytical summaries of sub-slab and groundwater sampling results for samples collected beneath the NHBB building. Because of the analytical results and observations of DNAPL within close proximity to the building, further investigation with respect to vapor intrusion was deemed necessary and prompted the indoor air sampling protocol outlined in the November 2008 work plan document.

For the dilute plume evaluation, groundwater analytical data collected since 2005 were compiled for wells located in this portion of the plume. Table 3 presents a summary of these data

compared to the NHDES- and USEPA-recommended Groundwater Screening Levels for the vapor intrusion pathway. The criteria were obtained from USEPA Region 1 letter Re: South Municipal Water Supply Well Superfund Site, Peterborough, NH Review and Response to Vapor Intrusion Issues, dated April 1, 2009. The levels included in the aforementioned document were obtained by USEPA from the following sources:

1. The screening levels for residential land use were obtained from Table 2c of the Draft USEPA 2002 Guidance for the Evaluation the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils, except for the levels for PCE, TCE and VC. The screening levels for PCE, TCE and VC were calculated by USEPA via the same methodology used for the derivation of the draft 2002 Table 2c criteria, but were not truncated at each constituent's respective maximum contaminant level (MCL).

2. The screening levels for commercial land use were calculated by USEPA Region 1 assuming a decreased exposure frequency and duration for an On-Site Worker receptor population.

As shown on Table 3, none of the detected VOCs exceed the NHDES screening criteria; however, PCE was detected at several sampling locations at concentrations greater than the USEPA screening criteria for residential land use (0.55 ug/L) and commercial land use (3.47 ug/L). Additionally, some reporting limits for PCE are greater than the USEPA screening criteria. TCE was detected within the dilute plume at concentrations exceeding the screening criterion for residential land use (2.89 ug/L); however, TCE has not been detected at a concentration in exceedance of its criterion for commercial land use (18.21 ug/L). Although VC was not detected in any sample analyzed from the dilute plume from 2005 to present, the detection limit of 1 ug/L exceeds the residential groundwater-to-indoor air screening level of 0.5 ug/L. Due to the noted exceedances compared to the non-truncated screening levels, USEPA required further investigation with respect to vapor intrusion in the dilute plume.

SAMPLING PROGRAM

The objective of the indoor air sampling was to determine if target VOCs found within the plume beneath the buildings may be migrating into and adversely affecting the air quality within the structures.

The sampling event was conducted over three days from October 19 through October 21, 2009. The first day of the event consisted of preparation, building reconnaissance and placement of summa canisters; a total of 19 canisters were situated for sample collection. Of the 19 canisters, 12 were placed at the NHBB facility with the remaining canisters deployed at the SDE building. Figures 2 and 3 present the sampling locations within and proximate to the NHBB and SDE buildings, respectively.

The positioning of the canisters was biased at the breathing zone height of each work station where possible. An outdoor ambient air sample and duplicate sample were collected from each building location. All canisters were equipped with laboratory calibrated flow regulators to collect 24-hour composite samples except one. One canister was equipped with a regulator

calibrated to collect an 8-hour sample; this can was place in the SDE office space in addition to a 24-hour canister. The 8-hour canister was activated during normal business hours to provide a representative sample, collected during typical working conditions and hours of operation.

The sampling was initialed on October 20, 2009. The morning of the event was dedicated to completing a pre-collection sample inspection. The inspection was aimed at identifying products stored in the work zones that could cause possible interference with the sampling event by contributing VOC. The results of the sampling inventory are contained in Appendix B.

With the exception of the 8-hour sample which was initiated at 0840, USEPA and NHDES personal were provided an opportunity to inspect sample locations and canister placement prior to initiating sample collection. Canisters were activated at 1132, following the inspection and approval of sampling locations by USEPA and NHDES. Following completion of sample collection, the canisters were couriered to Spectrum Analytical Services, Inc. in Agawam, Massachusetts for low-level VOC analysis by USEPA Method TO-15 SIM.

In general, winds were calm over the duration of the sampling event, with the predominating wind pattern originating from the south and west at average speeds of up to 3 mph with no recorded precipitation. Temperatures ranged from a low of 29 degrees F (October 20, 2009) to a high of 65 degrees F (October 21, 2009) and an average humidity and barometric pressure of 68% and 30.15 inches of mercury, respectively. Attachment C contains weather information obtained from the weather underground website ***www.wunderground.com***.

SAMPLING RESULTS

Tables 4 and 5 provide summaries of the analytical results from both the NHBB and SDE buildings, respectively. As discussed in the work plan documents, the VOC reporting list was modified to include only the parent compounds PCE, TCE and 1,1,1-TCA and the associated daughter compounds of DCE, DCA, CIS, TRANS and VC which comprise the groundwater plume. A copy of the laboratory analytical report and chain of custody are presented as Attachment D. As shown on tables and discussed in the laboratory report case narrative, the low-level reporting limits associated with the TO-15 SIM method were not achievable due to non-target analyte interference and sample dilutions.

Table 4 provides a summary of the indoor air analytical results for samples collected within and proximate to the NHBB building. A total of twelve samples were collected; included in the sample set were one duplicate sample and one ambient air sample collected proximate to the GZH-4 cluster. Seven of the eleven samples collected from within the NHBB building detected PCE. The concentrations generally ranged from 13.56 to 96.29 ug/m^3, although there was one anomalously high detection of 227.85 ug/m^3. Both the quantified PCE concentrations and the reporting limits (for samples with non-detects) are greater than the established NHDES and USEPA screening values. TCE was detected in only one sample at 16.39 ug/m3; however, all of the remaining samples had reporting limits for TCE greater than the screening values. 1,1,1-TCA was detected in one sample at a concentration less than its screening values; all reporting limits were less than the screening values for this VOC. Neither DCA nor VC was quantified in samples collected from the NHBB building, but the reporting limits for these constituents exceed the indoor air screening values. Although DCE had elevated reporting limits, the constituent

was not detected in any sample and the elevated reporting limits do not exceed the screening values. Screening values have not been developed for either daughter compound CIS or TRANS. CIS was not detected in any sample; however, TRANS was detected in all samples collected from within the NHBB facility at concentrations ranging from 856.42 to 1,237.15 ug/m^3. Although the detected PCE and TCE concentrations exceeded vapor instruction screening levels, none of the detected concentrations exceed the 8-hour time weighted average (TWA) Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs).

The ambient air sample collected outside of the NHBB building near the GZH-4 well cluster had positive detections of PCE, TCE, 1,1,1-TCA and TRANS. PCE was the only constituent detected in the outside air sample that exceeded the indoor air screening levels. DCE, DCA, TRANS and VC were not detected in this sample.

Table 5 presents a summary of indoor air analytical results for samples collected at the SDE facility. Five of the six samples collected from within the warehouse space exhibited PCE concentrations greater than indoor air screening levels. PCE concentration generally ranged from 11.53 to 12.75 ug/m3 although there was one anomalous detection of 161.39 ug/m3. All of the SDE samples detected TCE concentrations greater than the screening levels. No other target VOCs were detected at concentrations greater than screening levels; only one sample had an elevated reporting limit for VC that exceeded the screening value.

PCE, TCE and 1,1,1-TCA were detected in the outside ambient air sample collected from the eastern side of the SDE building. The PCE concentration in the outdoor air sample exceeded the indoor air screening criteria. Comparison of the ambient air sample to those collected in the SDE building demonstrates that all samples except one (SDE-2) contain fairly consistent concentrations of PCE, ranging from 11.53 to 15.46 ug/m^3. The outlier, SDE-2, quantified PCE at 161.39 ug/m3. Similar to PCE, detected TCE concentrations were fairly consistent in magnitude, ranging from 46.97 to 62.34 ug/m^3.

DISCUSSION

Because the NHBB facility is located over a known source area, VOC detections in the indoor air samples were expected. Though the samples had exceedances of vapor intrusion screening numbers, the results do not exceed OSHA PELs. The source mass beneath the building will be addressed when source area reduction measures are implemented as part of the revised Site remedy.

The ambient air sample for the NHBB building was collected from a location up- to cross- wind from the groundwater treatment building proximate to a location with known high groundwater concentrations and observable DNAPL (GZH-4 cluster). At this time, it is unknown if the VOCs concentrations detected in the NHBB ambient sample are measuring VOCs resulting from the wind current interaction with the building creating a concentration sink (from the stripper tower) along the front of the building, VOC volatilization from the operating extraction well EX-1, or VOC volatilization from subsurface sources to outdoor air. Based upon the predominant southerly to westerly wind directions during the sampling event, the detected concentrations of VOCs in the SDE ambient air sample could be a result of cross contamination from the NHBB

groundwater treatment system. The location of the SDE sample was directly downwind of the treatment facility when the winds originate from the west/southwest. The PCE concentration detected in the SDE ambient air sample was greater than the PCE concentration detected in the sample collected adjacent to the NHBB facility. Other target VOCs detected in both samples (TCE and 1,1,1-TCA) were of similar magnitude and were less than screening values.

Excepting the most recent groundwater analytical results from EX-5A during the 2009 sampling events, groundwater VOC concentrations within the dilute plume continue to demonstrate low detections of target VOCs (see Table 6). Samples which contain VOC concentrations greater than MCLs are typically collected from wells screened across the lower portion of the aquifer; wells set within the shallow portions of the aquifer generally have concentrations less than MCLs and provide a "buffer" between the deeper water with higher VOC concentrations and any potentially complete exposure pathways for vapor intrusion. The groundwater concentrations measured in the dilute plume do not suggest the resultant indoor air impacts such as those noted in the analytical results of the indoor air samples, particularly since "clean" water is located between the lower zones of higher impact and the buildings. Using methods similar to the Draft USEPA guidance in developing the groundwater to indoor screening levels, a generic groundwater calculation was derived from the indoor air values using an attenuation factor of 0.001. The resultant generic screening numbers would suggest groundwater concentration ranging from 1,750 to 1,880 ppb for PCE (and up to 23,800 for the anomalously high hit) and TCE concentrations in groundwater ranging from 8,740 to 11,600 ppb to yield the noted concentrations detected in the SDE indoor air samples.

Because the magnitude of the VOCs found within the SDE building samples were unexpected given the low VOC concentrations in groundwater proximate to the building, a preliminary evaluation of the pre-sampling inventory was further investigated though an on-line MSDS inspection. The pre-sampling inventory noted the storage of many products such as spray paint, adhesives and lubricants that may contain VOCs which could contribute to the noted VOCs in the indoor air samples. Moreover one product in particular, Carbo-Sol, manufactured by Sunnyside Corporation, contains TCE; the MSDS sheet for Carbo-Sol is located in Attachment E. Furthermore, as previously discussed, the property has a history as a known generator of F002 wastes.

ACTION ITEMS

Because there is uncertainty if the detected VOCs in the SDE samples originated from the groundwater plume, cross contamination from the NHBB stripper tower or from storage of VOC containing products within the work zone, NHBB and Hull suggest additional sampling at the SDE facility.

The sampling will pair additional indoor air sampling (from both the warehouse and storage areas) with soil gas sampling. As with the initial sampling, ambient air samples will be collected from positions in areas both the up and down-wind of the SDE building. The proposed scope of work will be outlined in a letter work plan to be submitted under separate cover. Additionally, to better understand the effects of the SDE heating, ventilation and air conditioning (HVAC) system, Hull will request mechanical drawings of the HVAC system as well as interview the SDE personal with respect to typical operations of the system. Pressure gauges may be used during

the sampling event to identify if the operation of the HVAC induces negative pressure in either the warehouse or storage areas.

Since there are detections of low-level VOCs proximate to the residential structure, interactions and discussions with the Strang Trust will be continued in an attempt to gain access to the residential property. Given the results of the initial indoor air sampling, Hull suggests installing soil gas implants on the north, west and south sides of the residence in-lieu of groundwater wells.

As proposed in the July 2009 EX-5A Memorandum (Hull document NHB033.200.0078), Hull suggests the installation of two well clusters between the east side of Route 202 and the SDE building. NHBB, Hull and USEPA should come to an agreement with respect to location of the wells and the wells should be installed.

PROJECT SCHEDULE

Hull will prepare the work plan for the next phase of sampling at locations proximate to the dilute plume and will submit the work plan before the end of the calendar year. Both NHBB and Hull will continue contact with the Strange Trust to negotiate access. These discussions may require some assistance by NHDES and USEPA. Following approval of the work plan and assuming all access issues are resolved, a minimum of three weeks notice to proceed is necessary to prepare, clean and certify the summa canisters and schedule subcontractors.

Please contact either of the undersigned with questions or comments concerning the content of this summary letter report.

Sincerely,

Tracy L. Edwards
Project Manager

Tracy L. Edwards
Digitally signed by Tracy L. Edwards
DN: cn=Tracy L. Edwards, o=Hull & Associates, Inc., ou, email=tedwards@hullinc.com, c=US
Date: 2009.12.09 14:56:39 -05'00'

W. Lance Turley, P.G.
Principal

ct. w/attachments Thomas Andrews, NHDES
Patti Carrier, NHBB
Chris Rawnsley, NHBB
Hull File NHB033

TABLES

SOUTH MUNICIPAL WATER SUPPLY WELL SUPERFUND SITE
VAPOR INTRUSION SCREENING AT THE NHBB AND SDE BUILDINGS

TABLE 1

SUMMARY OF SUB-SLAB VAPOR SAMPLES BENEATH NHBB BUILDING COLLECTED DURING SOURCE AREA INVESTIGATION

SUB-SLAB VAPOR SAMPLES 24-HOUR COMPOSITE TO-15 ug/m^3									
Analyte	NH Commercial Soil Gas Screening Level ug/m^3	SSV-1	SSV-2	SSV-3	SSV-4	SSV-5	SSV-6	SSV-7	SSV-8
Probe Installed Sample Collected		12/11/2006 12/12/2006	12/11/2006 12/12/2006	12/11/2006 12/12/2006	12/11/2006 12/12/2006	12/11/2006 12/12/2006	12/11/2006 12/12/2006	12/11/2006 12/12/2006	12/11/2006 12/12/2006
Vinyl Chloride	140	<970	<2,800	<4,100	<5,900	<660	<660	<1,100	<2,000
1,1-Dichloroethene	2,900	**2,900**	**6,700**	**13,000**	**24,000**	**2,200**	**6,700**	**17,000**	**19,000**
trans-1,2-Dichloroethene	no std	<1,500	<4,400	<6,300	<9,100	<1,000	<1,000	<1,700	<3,100
cis-1,2-Dichloroethene	no std	<1,500	<4,400	<6,300	<9,100	<1,000	<1,000	<1,700	<3,100
1,1-Dichloroethane	7,300	<1,500	<4,400	<6,500	<9,300	<1,100	<1,100	<1,700	<3,100
1,1,1-Trichloroethane	32,000	**29,000**	**60,000**	**98,000**	**180,000**	**16,000**	**11,000**	**21,000**	**31,000**
Trichloroethene	54	**97,000**	**260,000**	**500,000**	**970,000**	**33,000**	**42,000**	**97,000**	**180,000**
Tetrachloroethene	100	**350,000**	**880,000**	**1,600,000**	**2,900,000**	**200,000**	**210,000**	**410,000**	**750,000**

Notes:

- Sample result exceeds the NHDES Commercial Soil Gas Screening Level, February 1, 2007.

Bolded Constituent detected at the reported concentration.

SOUTH MUNICIPAL WATER SUPPLY WELL SUPERFUND SITE
VAPOR INTRUSION SCREENING AT THE NHBB AND SDE BUILDINGS

TABLE 2

SUMMARY OF VERTICAL PROFILING SAMPLES[a.] LOCATED BENEATH NHBB BUILDING COLLECTED DURING SOURCE AREA INVESTIGATION

VP-17 ug/l														
MOBILE LABORATORY														
Depth of Screened Interval	**NHDES Groundwater to Indoor Air Screening Levels GW-2[b.]**	**USEPA Draft Groundwater Screening Level for Vapor Intrusion - Occupational[c.]**	10-11	15-16	20-21	25-26	30-31	35-36	40-41	45-46	50-51	55-56	60-61	65-66	70-71
	ug/l	ug/l	1/15/07	1/15/07	1/15/07	1/15/07	1/15/07	1/15/07	1/15/07	1/15/07	1/15/07	1/15/07	1/15/07	1/15/07	1/15/07
Vinyl Chloride	10	3.15	<2	<2	<2	**7.4**	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	1,000	1,197	<0.5	**3.9**	**5.3**	**34**	**12**	**1.9**	**2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	no std	no std	<2.5	<2.5	<2.5	**1.0J**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
cis-1,2-Dichloroethene	no std	no std	<2.5	**14**	**19**	**83**	**20**	**7.7**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloroethane	10,000	13,860	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,1,1-Trichloroethane	20,000	19,530	<0.5	**170D**	**370D**	**1,400D**	**480D**	**52D**	**7.6**	**3.9**	**3.9**	<0.5	<0.5	**0.2J**	**3**
Trichloroethene	90	18.21	**0.12J**	**120D**	**300D**	**1,300D**	**400D**	**50D**	**2.9**	**2.1**	**0.22J**	<0.5	<0.5	**0.14J**	**0.2J**
Tetrachloroethene	80	3.47	**1.3**	**1,600D**	**2,200D**	**13,000D**	**3,200D**	**860D**	**110D**	**12**	**2.1**	**0.9**	**0.7**	**5.9**	**550D**

VP-18 ug/l															
MOBILE LABORATORY															
Depth of Screened Interval	**NHDES Groundwater to Indoor Air Screening Levels GW-2**	**USEPA Draft Groundwater Screening Level for Vapor Intrusion - Occupational**	26-27	31-32	36-37	41-42	46-47	51-52	56-57	61-62	66-67	71-72	76-77	81-82	
	ug/l	ug/l	12/31/06	12/31/06	12/31/06	12/31/06	12/31/06	12/31/06	12/31/06	12/31/06	12/31/06	12/31/06	12/31/06	12/31/06	
Vinyl Chloride	10	3.15	**3.1**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	NO SAMPLE
1,1-Dichloroethene	1,000	1,197	**11.5**	**10.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
trans-1,2-Dichloroethene	no std	no std	**3**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
cis-1,2-Dichloroethene	no std	no std	**4.5**	**4.4**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
1,1-Dichloroethane	10,000	13,860	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
1,1,1-Trichloroethane	20,000	19,530	**32D**	**30D**	**1.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Trichloroethene	90	18.21	**350D**	**250D**	**8**	**0.1J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Tetrachloroethene	80	3.47	**260D**	**370D**	**20**	**3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.3J**	<0.5	

SOUTH MUNICIPAL WATER SUPPLY WELL SUPERFUND SITE
VAPOR INTRUSION SCREENING AT THE NHBB AND SDE BUILDINGS

TABLE 2

SUMMARY OF VERTICAL PROFILING SAMPLES[a.] LOCATED BENEATH NHBB BUILDING COLLECTED DURING SOURCE AREA INVESTIGATION

VP-19 ug/l													
MOBILE LABORATORY													
Depth of Screened Interval	**NHDES Groundwater to Indoor Air Screening Levels GW-2** ug/l	**USEPA Draft Groundwater Screening Level for Vapor Intrusion - Occupational** ug/l	26-27 12/30/31	31-32 12/30/31	36-37 12/30/31	41-42 12/30/31	46-47 12/30/31	51-52 12/30/31	56-57 12/30/31	61-62 12/30/31	66-67 12/30/31	71-72 12/30/31	76-77 12/30/31	
Vinyl Chloride	10	3.15	<2	**6.4**	<2	<2	<2	<2	<2	<2	<2	<2	<2	NO SAMPLE
1,1-Dichloroethene	1,000	1,197	**1.1**	**0.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
trans-1,2-Dichloroethene	no std	no std	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
cis-1,2-Dichloroethene	no std	no std	**4.3**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
1,1-Dichloroethane	10,000	13,860	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
1,1,1-Trichloroethane	20,000	19,530	**6.5**	**4.3**	**0.43J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Trichloroethene	90	18.21	**18**	**7.9**	**1**	**1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Tetrachloroethene	80	3.47	**29**	**16**	**4.7**	**0.95**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	

VP-20 ug/l															
MOBILE LABORATORY															
Depth of Screened Interval	**NHDES Groundwater to Indoor Air Screening Levels GW-2** ug/l	**USEPA Draft Groundwater Screening Level for Vapor Intrusion - Occupational** ug/l	15-16 12/28/06	19-20 12/28/06	22-23 12/29/06	24-25 12/29/06	29-30 12/29/06	34-35 12/29/06	39-40 12/29/06	44-45 12/29/06	49-50 12/29/06	54-55 12/29/06	59-60 12/29/06	64-65 12/29/06	69-70 12/29/06
Vinyl Chloride	10	3.15	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	1,000	1,197	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	no std	no std	**1.5**	**1**	**0.96**	**0.96**	<5	**1**	**0.93**	**1.1**	**1**	**0.99**	**1**	**0.92**	<2.5
cis-1,2-Dichloroethene	no std	no std	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloroethane	10,000	13,860	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,1,1-Trichloroethane	20,000	19,530	**2.9**	**25D**	**8.6**	**10**	<0.5	<0.5	<0.5	**9.7**	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	90	18.21	**4.8**	**8.6D**	**14**	**4.7**	**0.2J**	<0.5	<0.5	**17**	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	80	3.47	**14**	**30,000D**	**30,000D**	**28,000D**	**1,200D**	**150D**	**140D**	**37D**	**26**	**20**	**5.6**	**3.4**	**0.84**

Notes

a. Groundwater samples were analyzed by modified USEPA Method 8021.
b. New Hampshire Department of Environmental Services, Vapor Intrusion Screening Levels, Table 1 Revised February 1, 2007.
c. USEPA Groundwater Screening Level for Vapor Intrusion - Occupational obtained from USEPA Region 1 letter Re: South Municipal Water Supply Well Superfund Site, Peterborough, NH Review and Response to Vapor Intrusion Issues, dated A
< Constituent not detected at values greater than the indicated reporting limit.
J Estimated Value
D. Concentration reported as a result of a dilution.
-- Not Sampled
Bolded Constituent detected at the reported concentration.
Constituent concentration exceeds either the residential or occupational screening level for volatile emissions from groundwater-to-indoor air.

SOUTH MUNICIPAL WATER SUPPLY WELL SUPERFUND SITE
VAPOR INTRUSION SCREENING AT THE NHBB AND SDE BUILDINGS

TABLE 3

PRELIMINARY SCREENING OF GROUNDWATER RESULTS FOR VAPOR INTRUSION POTENTIAL OF RESIDENTIAL AND COMMERCIAL STRUCTURES LOCATED WITHIN THE DILUTE PLUME

ROUTINE GROUNDWATER SAMPLES ug/L
CLP OLC VOA AND USEPA 8260B[a.]

Well	Well Location	Relevant Screening Level	Target VOC	USEPA Draft Groundwater Screening Level for Vapor Intrusion - Residential[b.] ug/l	USEPA Draft Groundwater Screening Level for Vapor Intrusion - Occupational[c.] ug/l	NHDES Groundwater to Indoor Air Screening Levels GW-2[e.] ug/L	April-05	June-05	December-05	March-06	July-06	December-06	October-07	April-08	August-08	December-08
EM-3U	Southeast of Commercial Structure 2	Occupational	PCE	0.55[d.]	3.47	80	<1	**2**	**3**	--	--	--	--	--	**5**	--
			TCE	2.89[d.]	18.21	90	**0.3J**	**0.5J**	**2**	--	--	--	--	--	**6.4**	--
			1,1-DCA	2,200	13,860	10,000	<1	<1	**0.2J**	--	--	--	--	--	**0.8J**	--
			1,1-DCE	190	1,197	1,000	<1	<1	**0.2J**	--	--	--	--	--	**1.6**	--
			1,1,1-TCA	3,100	19,530	20,000	**0.4J**	**0.4J**	**1**	--	--	--	--	--	**6.3**	--
			VC	0.5[d.]	3.15	10	<1	<1	<1	--	--	--	--	--	<1	--
EM-3L	Southeast of Commercial Structure 2	Occupational	PCE	0.55[d.]	3.47	80	**0.4J**	**2**	**2**	--	--	--	--	--	**5.4**	--
			TCE	2.89[d.]	18.21	90	**0.8J**	1	**8**	--	--	--	--	--	**10.8**	--
			1,1-DCA	2,200	13,860	10,000	<1	<1	**2**	--	--	--	--	--	**1.6**	--
			1,1-DCE	190	1,197	1,000	<1	<1	**0.9J**	--	--	--	--	--	**2.1**	--
			1,1,1-TCA	3,100	19,530	20,000	**0.2J**	**0.2J**	**0.4J**	--	--	--	--	--	**3.6**	--
			VC	0.5[d.]	3.15	10	<1	<1	<1	--	--	--	--	--	<1	--
EX-5A	Southeast of Commercial Structure 2	Occupational	PCE	0.55[d.]	3.47	80	**0.5**	**2**	**3**	**3**	**3**	**4**	**7.2**	**3.8**	**29.4**	**1.2**
			TCE	2.89[d.]	18.21	90	**0.7**	**2**	**4**	**4**	**4**	**4**	**6.1**	<1	**9.6**	<1
			1,1-DCA	2,200	13,860	10,000	<1	**0.2J**	**0.3J**	**0.3J**	**0.4J**	**0.4J**	**0.6J**	<1	**6**	<1
			1,1-DCE	190	1,197	1,000	<1	**0.5J**	**0.5J**	**0.5J**	**0.4J**	**0.6J**	**0.7J**	<1	<1	<1
			1,1,1-TCA	3,100	19,530	20,000	**0.3**	**1**	**1**	**1**	**1**	**2**	**4.4**	<1	**19.1**	<1
			VC	0.5[d.]	3.15	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-7U	East of Commercial Structure 2	Occupational	PCE	0.55[d.]	3.47	80	<1	**1**	--	<1	--	--	--	--	<1	--
			TCE	2.89[d.]	18.21	90	<1	<1	--	<1	--	--	--	--	<1	--
			1,1-DCA	2,200	13,860	10,000	<1	<1	--	<1	--	--	--	--	<1	--
			1,1-DCE	190	1,197	1,000	<1	<1	--	<1	--	--	--	--	<1	--
			1,1,1-TCA	3,100	19,530	20,000	<1	<1	--	<1	--	--	--	--	<1	--
			VC	0.5[d.]	3.15	10	<1	<1	--	<1	--	--	--	--	<1	--
MW-7L	East of Commercial Structure 2	Occupational	PCE	0.55[d.]	3.47	80	<1	**1**	--	**0.2J**	--	--	--	--	<1	--
			TCE	2.89[d.]	18.21	90	<1	<1	--	**0.4J**	--	--	--	--	<1	--
			1,1-DCA	2,200	13,860	10,000	<1	<1	--	<1	--	--	--	--	<1	--
			1,1-DCE	190	1,197	1,000	<1	<1	--	<1	--	--	--	--	<1	--
			1,1,1-TCA	3,100	19,530	20,000	<1	<1	--	<1	--	--	--	--	<1	--
			VC	0.5[d.]	3.15	10	<1	<1	--	<1	--	--	--	--	<1	--
P-3	Northeast of Residential Structure 1 / Southwest of Commercial Structure 2	Residential / Occupational	PCE	0.55[d.]	3.47	80	--	**11**	**15**	**6**	**2**	**3**	**1.7**	**0.9J**	--	--
			TCE	2.89[d.]	18.21	90	--	**6**	**8**	**7**	**2**	**2**	**1.7**	<1	--	--
			1,1-DCA	2,200	13,860	10,000	--	1	**1J**	**1J**	**0.3J**	**0.5J**	**0.6J**	<1	--	--
			1,1-DCE	190	1,197	1,000	--	<1	**2J**	**1J**	**0.3J**	**0.3J**	<1	<1	--	--
			1,1,1-TCA	3,100	19,530	20,000	--	**2**	**40**	**34**	**11**	**6**	**3.9**	**1.6**	--	--
			VC	0.5[d.]	3.15	10	--	<1	<2	<2	<1	<1	<1	<1	--	--
GZ-13U	Southeast of Residential Structure 1	Residential	PCE	0.55[d.]	3.47	80	--	**1**	--	<1	<1	<1	<1	--	<1	--
			TCE	2.89[d.]	18.21	90	--	<1	--	<1	<1	<1	<1	--	<1	--
			1,1-DCA	2,200	13,860	10,000	--	<1	--	<1	<1	<1	<1	--	<1	--
			1,1-DCE	190	1,197	1,000	--	<1	--	<1	<1	<1	<1	--	<1	--
			1,1,1-TCA	3,100	19,530	20,000	--	<1	--	**0.2J**	**0.5J**	**0.8J**	<1	--	<1	--
			VC	0.5[d.]	3.15	10	--	<1	--	<1	<1	<1	<1	--	<1	--
GZ-13M	Southeast of Residential Structure 1	Residential	PCE	0.55[d.]	3.47	80	**4**	**18**	--	**0.7J**	**0.3J**	**0.6J**	<1	--	<1	--
			TCE	2.89[d.]	18.21	90	**1**	**7**	--	**0.7J**	**0.3J**	**0.3J**	<1	--	<1	--
			1,1-DCA	2,200	13,860	10,000	**0.4J**	**1**	--	<1	<1	<1	<1	--	<1	--
			1,1-DCE	190	1,197	1,000	<1	**1**	--	<1	<1	<1	<1	--	<1	--
			1,1,1-TCA	3,100	19,530	20,000	**1**	**22**	--	**4**	1	**0.7J**	<1	--	<1	--
			VC	0.5[d.]	3.15	10	<1	<1	--	<1	<1	<1	<1	--	<1	--
GZ-13L	Southeast of Residential Structure 1	Residential	PCE	0.55[d.]	3.47	80	--	**13**	--	**2**	**0.9J**	**2**	**0.9J**	--	**0.7J**	**--**
			TCE	2.89[d.]	18.21	90	--	**4**	--	**2**	**0.9J**	1	**0.6J**	--	1	**--**
			1,1-DCA	2,200	13,860	10,000	--	**0.6J**	--	**0.2J**	<1	**0.2J**	<1	--	<1	--
			1,1-DCE	190	1,197	1,000	--	**0.8J**	--	**0.4J**	<1	<1	<1	--	<1	--
			1,1,1-TCA	3,100	19,530	20,000	--	**14**	--	**5**	**2**	**4**	<1	--	**1.8**	**--**
			VC	0.5[d.]	3.15	10	--	<1	--	<1	<1	<1	<1	--	<1	--

SOUTH MUNICIPAL WATER SUPPLY WELL SUPERFUND SITE
VAPOR INTRUSION SCREENING AT THE NHBB AND SDE BUILDINGS

TABLE 3

PRELIMINARY SCREENING OF GROUNDWATER RESULTS FOR VAPOR INTRUSION POTENTIAL OF RESIDENTIAL AND COMMERCIAL STRUCTURES LOCATED WITHIN THE DILUTE PLUME

ROUTINE GROUNDWATER SAMPLES ug/L
CLP OLC VOA AND USEPA 8260B[a.]

Well	Well Location	Relevant Screening Level	Target VOC	USEPA Draft Groundwater Screening Level for Vapor Intrusion - Residential[b.] ug/l	USEPA Draft Groundwater Screening Level for Vapor Intrusion - Occupational[c.] ug/l	NHDES Groundwater to Indoor Air Screening Levels GW-2[e.] ug/L	April-05	June-05	December-05	March-06	July-06	December-06	October-07	April-08	August-08	December-08
GZ-13R	Southeast of Residential Structure 1	Residential	PCE	0.55[d.]	3.47	80	--	**1**	--	--	<1	<1	1	--	**1 J**	**--**
			TCE	2.89[d.]	18.21	90	--	**2**	--	--	**0.9J**	**0.9J**	**1.2**	--	**1.2**	**--**
			1,1-DCA	2,200	13,860	10,000	--	**0.6J**	--	--	**0.5J**	**0.6J**	**0.6J**	--	**0.6J**	**--**
			1,1-DCE	190	1,197	1,000	--	**0.6J**	--	--	<1	**0.5J**	**0.7J**	--	**0.7J**	**--**
			1,1,1-TCA	3,100	19,530	20,000	--	<1	--	--	<1	<1	<1	--	<1	--
			VC	0.5[d.]	3.15	10	--	<1	--	--	<1	<1	<1	--	<1	--
MW-11U	Southwest of Residential Structure 1	Residential	PCE	0.55[d.]	3.47	80	--	--	--	<1	**0.3J**	**0.2J**	--	--	<1	--
			TCE	2.89[d.]	18.21	90	--	--	--	<1	<1	<1	--	--	<1	--
			1,1-DCA	2,200	13,860	10,000	--	--	--	<1	<1	<1	--	--	<1	--
			1,1-DCE	190	1,197	1,000	--	--	--	<1	<1	<1	--	--	<1	--
			1,1,1-TCA	3,100	19,530	20,000	--	--	--	<1	<1	<1	--	--	<1	--
			VC	0.5[d.]	3.15	10	--	--	--	<1	<1	<1	--	--	<1	--
MW-11L	Southwest of Residential Structure 1	Residential	PCE	0.55[d.]	3.47	80	--	1	--	<1	<1	**0.3J**	--	--	<1	--
			TCE	2.89[d.]	18.21	90	--	**0.4J**	--	<1	<1	<1	--	--	<1	--
			1,1-DCA	2,200	13,860	10,000	--	<1	--	<1	<1	<1	--	--	<1	--
			1,1-DCE	190	1,197	1,000	--	<1	--	<1	<1	<1	--	--	<1	--
			1,1,1-TCA	3,100	19,530	20,000	--	**0.7J**	--	<1	<1	<1	--	--	<1	--
			VC	0.5[d.]	3.15	10	--	<1	--	<1	<1	<1	--	--	<1	--

Notes

a. Groundwater samples collected prior to October 2007 were analyzed by CLP OLC VOA; samples collected including and after October 2007 were analyzed by USEPA Method 8260B.
b. USEPA Draft Groundwater Screening Level for Vapor Intrusion - Residential obtained from USEPA Region 1 letter Re: South Municipal Water Supply Well Superfund Site, Peterborough, NH Review and Response to Vapor Intrusion Issues, dated April 1, 2009.
The screening level was obtained from Table 2c of the Draft USEPA 2002 Guidance for the Evaluation the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils, except where indicated.
c. USEPA Groundwater Screening Level for Vapor Intrusion - Occupational obtained from USEPA Region 1 letter Re: South Municipal Water Supply Well Superfund Site, Peterborough, NH Review and Response to Vapor Intrusion Issues, dated April 1, 2009.
d. USEPA Groundwater Screening Level for Vapor Intrusion - Residential obtained from USEPA Region 1 letter Re: South Municipal Water Supply Well Superfund Site, Peterborough, NH Review and Response to Vapor Intrusion Issues, dated April 1, 2009.
e. New Hampshire Department of Environmental Services, Vapor Intrusion Screening Levels, Table 1 Revised February 1, 2007.
Bolded Constituent detected at the reported concentration.
< Constituent not detected at values greater than the indicated reporting limit.
J Estimated Value.
-- Not Sampled.
Constituent concentration exceeds either the residential or occupational screening level for volatile emissions from groundwater-to-indoor air.

SOUTH MUNICIPAL WATER SUPPLY WELL SUPERFUND SITE
VAPOR INTRUSION SCREENING AT THE NHBB AND SDE BUILDINGS

TABLE 4

SUMMARY OF INDOOR AIR SAMPLING RESULTS, NHBB BUILDING OCTOBER 2009

			NHBB BUILDING						
Target VOC	NHDES Commercial Indoor Air Screening Level[1.] (ug/m^3)	EPA Regional Screening Level for Industrial Air[2.] (ug/m^3)	NHB033:IA1: 040:A102009 20-Oct-09 4 feet above ground 24-hour composite	NHB033:IA2: 055:A102009 20-Oct-09 5.5 feet above ground 24-hour composite	NHB033:IA3: 055:A102009 20-Oct-09 5.5 feet above ground 24-hour composite	NHB033:IA4: 050:A102009 20-Oct-09 5 feet above ground 24-hour composite	NHB033:IA4: 050:A102010A 20-Oct-09 5 feet above ground 24-hour composite	NHB033:IA5: 055:A102009 20-Oct-09 5.5 feet above ground 24-hour composite	NHB033:IA6: 055:A102009 20-Oct-09 5.5 feet above ground 24-hour composite
			ug/m^3						
Tetrachloroethylene	2.1	2.1	<16.95	**227.85**	<13.56	**56.28**	**96.29**	**30.18**	<33.91
Trichloroethene	1.1	6.1	<13.44	**16.39**	<10.75	<13.44	<21.50	<13.44	<26.87
1,1-dichloroethane	150	7.7	<10.12	<10.12	<8.10	<10.12	<16.20	<10.12	<20.25
1,1-dichloroethene	58	880	<9.92	<9.92	<7.93	<9.92	<15.87	<9.92	<19.84
1,1,1-trichloroethane	640	22,000	<13.64	**18.55**	<10.91	<13.64	<21.82	<13.64	<27.28
Vinyl Chloride	2.8	2.8	<6.39	<6.39	<5.11	<6.39	<10.22	<6.39	<12.78
trans-1,2-dichloroethene	no std	no std	**1,015.10**	**864.42**	**856.49**	**1,066.65**	**1,007.17**	**1,141.99**	**1,181.64**
cis-1,2-dichloroethene	no std	no std	<9.91	<9.91	<7.93	<9.91	<15.87	<9.91	<19.83

			NHBB BUILDING						
Target VOC	NHDES Commercial Indoor Air Screening Level[1.] (ug/m^3)	EPA Regional Screening Level for Industrial Air[2.] (ug/m^3)	NHB033:IA7: 050:A102009 20-Oct-09 5 feet above ground 24-hour composite	NHB033:IA8: 045:A102009 20-Oct-09 4.5 feet above ground 24-hour composite	NHB033:IA9: 010:A102009 20-Oct-09 on ground surface 24-hour composite	NHB033:IA10: 010:A102009 20-Oct-09 on ground surface 24-hour composite	*NHB033:IA11: 040:A102009 20-Oct-09 4 feet above ground 24-hour composite*	RPD between IA-4 and IA-4 Duplicate	
				ug/m^3					
Tetrachloroethylene	2.1	2.1	<33.91	**27.8**	**27.67**	**13.56**	**5.15**	52%	
Trichloroethene	1.1	6.1	<26.87	<13.44	<21.50	<10.75	**0.59**		
1,1-dichloroethane	150	7.7	<20.25	<10.12	<16.20	<8.10	<0.40		
1,1-dichloroethene	58	880	<19.84	<9.92	<15.87	<7.93	<0.40		
1,1,1-trichloroethane	640	22,000	<27.28	<13.64	<21.82	<10.91	**0.93**		
Vinyl Chloride	2.8	2.8	<12.78	<6.39	<10.22	<5.11	<0.26		
trans-1,2-dichloroethene	no std	no std	**1,237.15**	**1,209.40**	**1,038.89**	**1,078.54**	**6.27**	13%	
cis-1,2-dichloroethene	no std	no std	<19.83	<9.91	<15.86	<7.93	<0.40		

NOTES:
High concentrations of non-target analytes prevented analysis by low-level reporting methods/limits.

62.34	Exceeds both the NHDES and USEPA Screening Values.
62.34	Exceeds both the USEPA Screening Value.
62.34	Constituent detected at the reported concentration.
NHB033:IA11:	Ambient Outside Air sample

1. NHDES Vapor Intrusion Guidance, Vapor Intrusion Screening Levels Table 1, Revised February 1, 2007.
2. Screening Levels provided by Region 1 Risk Team for 1E-06 cancer risk or Hazard Quotient =1 (from EPA Regional Screening Level Table)
(EPA. 2002.OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance). EPA530-D-02-004.

Screening level for workers is 6.3 times higher than for residents due to:
shorter exposure frequency (250 vs. 350 days/yr), shorter exposure duration (20 vs. 30 yrs), and shorter exposure time (8 vs. 24 hr/day)

SOUTH MUNICIPAL WATER SUPPLY WELL SUPERFUND SITE
VAPOR INTRUSION SCREENING AT THE NHBB AND SDE BUILDINGS

TABLE 5

SUMMARY OF INDOOR AIR SAMPLING RESULTS, SDE BUILDING OCTOBER 2009

			SDE BUILDING							
Target VOC	NHDES Commerical Indoor Air Screening Level[1.] (ug/m^3)	EPA Regional Screening Level for Industrial Air[2.] (ug/m^3)	NHB033:SDE1: 010:A102009 20-Oct-09 on ground surface 24-hour composite	NHB033:SDE2: 010:A102009 20-Oct-09 on ground surface 24-hour composite	NHB033:SDE3: 010:A102009 20-Oct-09 on ground surface 24-hour composite	NHB033:SDE3: 010:A102009A 20-Oct-09 on ground surface 24-hour composite	NHB033:SDE4: 040:A102009 20-Oct-09 4 feet above ground 24-hour composite	NHB033:SDE4-8: 040:A102009 20-Oct-09 4 feet above ground 8-hour composite	*NHB033:SDE5: 040:A102009 20-Oct-09 4 feet above ground 24-hour composite*	RPD Between SDE3 and SDE3 Duplicate
			ug/m^3							
Tetrachloroethylene	2.1	2.1	**11.87**	**161.39**	**11.53**	**12.00**	**12.75**	<16.95	**15.46**	4%
Trichloroethene	1.1	6.1	**46.97**	**50.73**	**50.52**	**53.15**	**47.08**	**62.34**	**0.54**	5%
1,1-dichloroethane	150	7.7	<2.02	<2.02	<2.02	<2.02	<2.02	<10.12	<0.40	
1,1-dichloroethene	58	880	<1.98	<1.98	<1.98	<1.98	<1.98	<9.92	<0.40	
1,1,1-trichloroethane	640	22,000	<2.73	**13.86**	<2.73	<2.73	<2.73	<13.64	**0.87**	
Vinyl Chloride	2.8	2.8	<1.28	<1.28	<1.28	<1.28	<1.28	<6.39	<0.26	
trans-1,2-dichloroethene	no std	no std	<1.28	**3.33**	<1.98	<1.98	<1.98	<9.91	<0.40	
cis-1,2-dichloroethene	no std	no std	<1.98	<1.98	<1.98	<1.98	<1.98	<9.91	<0.40	

NOTES:
High concentrations of non-target analytes prevented analysis by low-level reporting methods/limits.

62.34	Exceeds both the NHDES and USEPA Screening Values.
62.34	Exceeds both the USEPA Screening Value.
62.34	Constituent detected at the reported concentration.
NHB033:IA11:	Ambient Outside Air sample

1. NHDES Vapor Intrusion Guidance, Vapor Intrusion Screening Levels Table 1, Revised February 1, 2007.

2. Screening Levels provided by Region 1 Risk Team for 1E-06 cancer risk risk or Hazard Quotient =1 (from EPA Regional Screening Level Table)
(EPA. 2002.OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance). EPA530-D-02-004.

Screening level for workers is 6.3 times higher than for residents due to:
shorter exposure frequency (250 vs. 350 days/yr), shorter exposure duration (20 vs. 30 yrs), and shorter exposure time (8 vs. 24 hr/day)

SOUTH MUNICIPAL WATER SUPPLY WELL SUPERFUND SITE
VAPOR INTRUSION SCREENING AT THE NHBB AND SDE BUILDINGS

TABLE 6

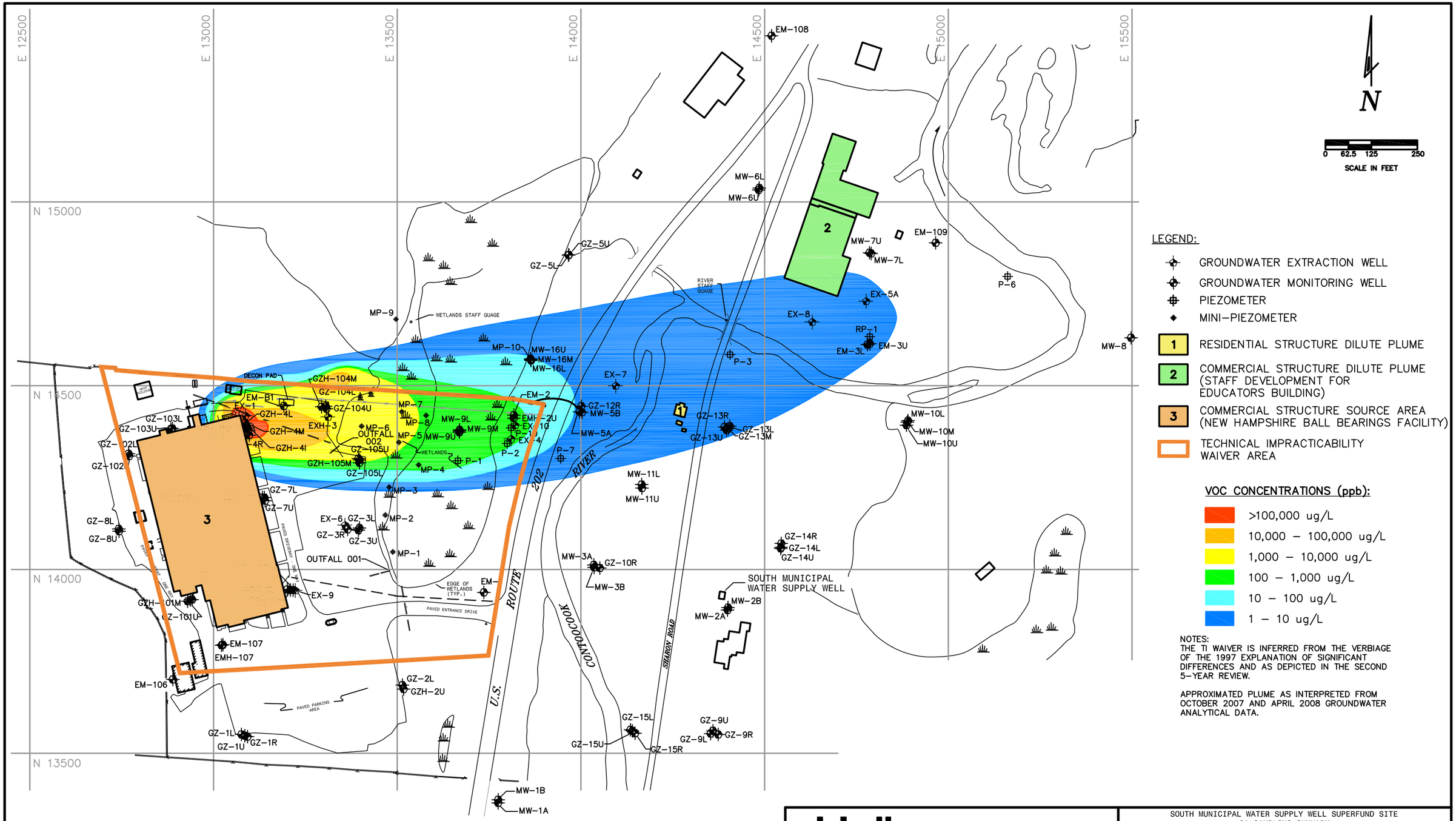
SUMMARY OF ANALYTICAL RESULTS FOR THE DILUTE PLUME WELLS, AUGUST 2009 SAMPLING EVENT
SELECTED COMPOUNDS

		ANALYTICAL RESULTS (ug/l)							
PARAMETER / SAMPLE NUMBER	**Cleanup Level**	NHB033:EM3U:G081909	NHB033:DP1:G081910	NHB033:EM3L:G081909	NHB033:EM109:G081809	NHB033:EX5A:G081909		NHB033:EX8:G082109	NHB033:GZ13U:G081809
WELL ID	**NA**	EM-3U	EM-3U DUP	EM-3L	EM-109	EX5A	EX7	EX8	GZ-13U
Date Collected	**NA**	8/19/2009	8/19/2009	8/19/2009	8/18/2009	8/19/2009	2009	8/21/2009	8/18/2009
1,1-dichloroethane	81	<1	<1	**2.0**	<1 [1.]	<1	Unable to btain sample	**2.6**	<1
1,1-dichloroethene	7	**0.9J**	**0.8J**	**2.1**	<1	<1		**6.3**	<1
cis-1,2-dichloroethene	70	<1	<1	**1.6**	<1	**0.6J**		**12.4**	<1
trans-1,2-dichloroethene	100	<1	<1	<1	<1	<1		**1.9**	<1
Tetrachloroethene	5	**2.9**	**3.0**	**7.5**	<1	**135**		**8.4**	<1
Toluene	1,000	<1	<1	<1	<1	<1		<1	<1
Trichloroethene	5	**3.8**	**3.8**	**12.7**	**0.1J** [2.]	**14.8**		**24.4**	<1
1,1,1-trichloroethane	200	**1.8**	**1.9**	**1.7**	<1	**13.8**		**6.2**	<1
Vinyl Chloride	2	<1	<1	<1	<1	<1		**0.9**	<1

		ANALYTICAL RESULTS (ug/l)							
PARAMETER / SAMPLE NUMBER	**Cleanup Level**	NHB033:GZ13M:G081809	NHB033:GZ13L:G081809	NHB033:MW7U:G081809	NHB033:MW7L:G081809	NHB033:MW11U:G081809	NHB033:MW11L:G081809	NHB033:P6:G081909	NHB033:RP1:G081809
WELL ID	**NA**	GZ-13M	GZ-13L	MW7U	MW7L	MW11U	MW11L	P6	RP1
Date Collected	**NA**	8/18/2009	8/18/2009	8/18/2009	8/18/2009	8/18/2009	8/18/2009	8/19/2009	8/18/2009
1,1-dichloroethane	81	<1	<1	<1	<1	<1	<1	**0.7J**	**3.1**
1,1-dichloroethene	7	<1	<1	<1	<1	<1	<1	<1	**2.2**
cis-1,2-dichloroethene	70	<1	<1	<1	<1	<1	<1	<1	**4.5**
trans-1,2-dichloroethene	100	<1	<1	<1	<1	<1	<1	<1	**1.4**
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	**4.2**	**2.4**
Toluene	1,000	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	**1.1**	<1	<1	**2.3**	**12.2**
1,1,1-trichloroethane	200	<1	<1	<1	<1	<1	<1	**2.4**	<1
Vinyl Chloride	2	<1	<1	<1	<1	<1	<1	<1	<1

Notes:
All samples were analyzed using U.S. EPA Method 8260.
Analytical results for QA/QC samples including field blanks, trip blanks, matrix spike and matrix spike duplicates are contained within the laboratory data packages located within the report appendices.
1. < indicates concentrations less than the reporting limit.
2. "J" indicates an estimated value.
3. Resultant concentration from sample re-analysis at a higher dilution factor.
BOLD indicates detected parameter.
Shading indicates a detected concentration or elevated detection limit which exceeds cleanup level.

FIGURES



LEGEND:

- GROUNDWATER EXTRACTION WELL
- GROUNDWATER MONITORING WELL
- PIEZOMETER
- MINI-PIEZOMETER
- 1 — RESIDENTIAL STRUCTURE DILUTE PLUME
- 2 — COMMERCIAL STRUCTURE DILUTE PLUME (STAFF DEVELOPMENT FOR EDUCATORS BUILDING)
- 3 — COMMERCIAL STRUCTURE SOURCE AREA (NEW HAMPSHIRE BALL BEARINGS FACILITY)
- TECHNICAL IMPRACTICABILITY WAIVER AREA

VOC CONCENTRATIONS (ppb):

- >100,000 ug/L
- 10,000 – 100,000 ug/L
- 1,000 – 10,000 ug/L
- 100 – 1,000 ug/L
- 10 – 100 ug/L
- 1 – 10 ug/L

NOTES:
THE TI WAIVER IS INFERRED FROM THE VERBIAGE OF THE 1997 EXPLANATION OF SIGNIFICANT DIFFERENCES AND AS DEPICTED IN THE SECOND 5-YEAR REVIEW.

APPROXIMATED PLUME AS INTERPRETED FROM OCTOBER 2007 AND APRIL 2008 GROUNDWATER ANALYTICAL DATA.

SOURCE: THIS DRAWING WAS RE-DRAFTED FROM T.F. MORAN, INC. "BOUNDARY PLAN OF LAND FOR NEW HAMPSHIRE BALL BEARINGS, INC.", DATED JANUARY 19, 1990.

Hull & associates, inc.
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FAX: (513) 459-9869
www.hullinc.com

SOUTH MUNICIPAL WATER SUPPLY WELL SUPERFUND SITE
IA SAMPLING SUMMARY

FIGURE 1
SITE PLAN

PETERBOROUGH, NEW HAMPSHIRE

PROJECT NO.: NHB033	SUBMITTAL DATE: NOVEMBER 2009
CAD DWG FILE: NHB033.200.0113	PLOT DATE: 11/20/09

N 14500

E 13000

E 13500

6" HDPE NPA FORCEMAIN

4" HDPE DPA FORCEMAIN

HDPE

VE/GWS BUILDING

GATE VALVE ON NORTH OUTFALL TO CONTROL FLOW TO WETLANDS

G.V.

C.V.

4"PVC

15"

15"ADS

8"VERT. PVC

8"PVC

OUTFALL 005

OUTFALL 006

LOADING DOCK

10"PVC

(B)

4" HDPE

6"PVC

EX-1 VAULT

3" HDPE

NORTH OUTFALL

GATE VALVE AND CHECK VALVE ON NPA FORCEMAIN

EXH-3 WELL HOUSE

NHBB BUILDING

GRAVITY SEWER

4" HDPE

OUTFALL 002

INV. OUT 777.53

MP-6

MP-3

DPA FORCEMAIN

NPA FORCEMAIN 2" HDPE

VP1 VP2 VP3 VP4 VP5 VP6 VP7 VP8 VP9 VP10 VP11 VP12 VP13 VP14 VP15 VP16 VP17 VP18 VP19 VP20 VP21 VP22 VP23 VP24 VP25 VP26 VP27 VP28 VP29 VP30 VP31 VP32 VP33 VP34 VP35 VP36 VP37 VP38 VP39 VP40 VP41 VP42 VP43 VP43 OFFSET VP44

EM-B1

GZH-104M GZ-104L GZ-104U EXH-3

GZ-105U GZ-105M GZ-105L

GZ-103U GZ-103L

GZ-4R GZH-4I GZH-4U GZH-4M GZH-4L

GZ-7L GZ-7U GZ-7M

MH-2

FSSB-1 FSSB-2 FSSB-3

IA-1 IA-2 IA-3 IA-4 PLUS DUPLICATE IA-5 IA-6 IA-7 IA-8 IA-9 IA-10 IA-11

HSB18A HSB19A HSB20A HSB21A

SSV1 SSV2 SSV3 SSV4 SSV5 SSV6 SSV7 SSV8

0 – 25 50

SCALE IN FEET

N

LEGEND:

MW-# GZ-# P-# EM-#		GROUNDWATER MONITORING WELLS
EX-#		GROUNDWATER EXTRACTION WELL
MP-#		MINI-PIEZOMETER
RP-1		BEDROCK PIEZOMETER
VP#		VERTICAL PROFILING MICROWELL PHASE I
VP#		VERTICAL PROFILING MICROWELL PHASE II
VP#		VERTICAL PROFILING MICROWELL INSTALLED APRIL 7-16, 2008
HSB#		PHASE II SOIL BORING INSTALLED DECEMBER 27-30, 2006
FSSB-#		SOIL BORING INSTALLED APRIL 12-16, 2008
SSV#		SUB-SLAB VAPOR SAMPLING POINTS, PHASE I INSTALLED DECEMBER 11, 2006
IA-#		INDOOR AIR SAMPLING LOCATION

NOTE:
- DRILLING LOCATIONS ARE CONCEPTUAL AND SUBJECT TO MODIFICATIONS TO ACCOMMODATE ANY UNDER OR ABOVE-GROUND OBSTRUCTIONS.
- VP1 THROUGH VP36 INSTALLED DECEMBER 11, 2006 THROUGH FEBRUARY 6, 2007.
- SSV/HSB/VP LOCATIONS WERE ADVANCED THROUGH COMMON FLOOR PENETRATION FOR LOCATION VP18 THROUGH VP21.
- PROPOSED SAMPLING LOCATIONS WILL BE FIELD ADJUSTED AS NEEDED TO FACILITATE SAMPLING WITHOUT HINDRANCE TO MANUFACTURING OPERATIONS.

ORIGINAL AERIAL PHOTOGRAPHY AND CONTOURING BY EASTERN TOPOGRAPHIC, INC.

NOTE: THIS DRAWING WAS RE-DRAFTED FROM T.F. MORAN, INC. "BOUNDARY PLAN OF LAND FOR NEW HAMPSHIRE BALL BEARINGS, INC.", DATED JANUARY 19, 1990.

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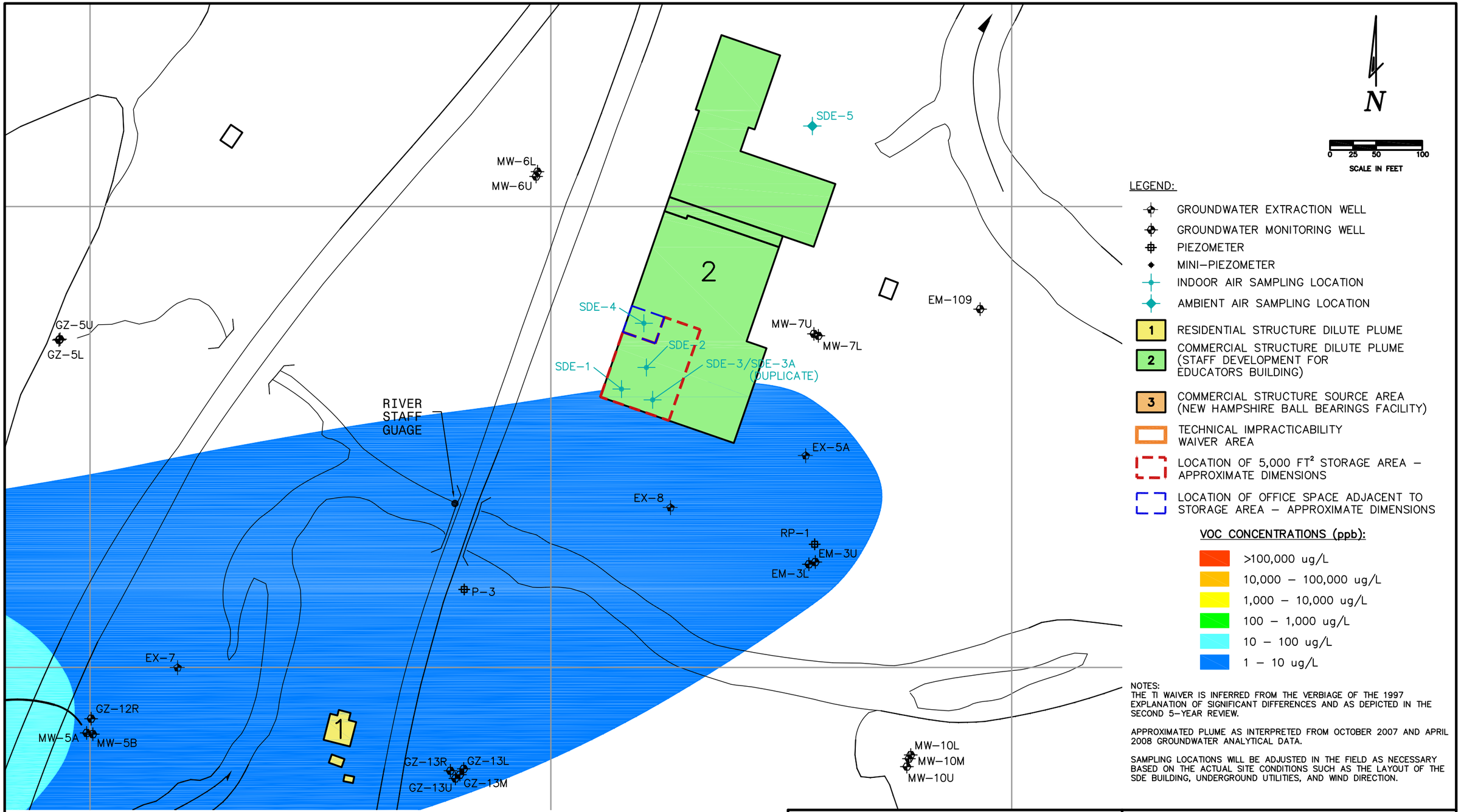
SOUTH MUNICIPAL WATER SUPPLY WELL SUPERFUND SITE
IA SAMPLING SUMMARY

FIGURE 2
NHBB INDOOR AIR SAMPLING LOCATIONS

PETERBOROUGH, NEW HAMPSHIRE

PROJECT NO.: NHB033	SUBMITTAL DATE: NOVEMBER 2009
CAD DWG FILE: NHB033.200.0114	PLOT DATE: 11/20/09



LEGEND:

- GROUNDWATER EXTRACTION WELL
- GROUNDWATER MONITORING WELL
- PIEZOMETER
- MINI-PIEZOMETER
- INDOOR AIR SAMPLING LOCATION
- AMBIENT AIR SAMPLING LOCATION
- 1 RESIDENTIAL STRUCTURE DILUTE PLUME
- 2 COMMERCIAL STRUCTURE DILUTE PLUME (STAFF DEVELOPMENT FOR EDUCATORS BUILDING)
- 3 COMMERCIAL STRUCTURE SOURCE AREA (NEW HAMPSHIRE BALL BEARINGS FACILITY)
- TECHNICAL IMPRACTICABILITY WAIVER AREA
- LOCATION OF 5,000 FT² STORAGE AREA – APPROXIMATE DIMENSIONS
- LOCATION OF OFFICE SPACE ADJACENT TO STORAGE AREA – APPROXIMATE DIMENSIONS

VOC CONCENTRATIONS (ppb):

- >100,000 ug/L
- 10,000 – 100,000 ug/L
- 1,000 – 10,000 ug/L
- 100 – 1,000 ug/L
- 10 – 100 ug/L
- 1 – 10 ug/L

NOTES:
THE TI WAIVER IS INFERRED FROM THE VERBIAGE OF THE 1997 EXPLANATION OF SIGNIFICANT DIFFERENCES AND AS DEPICTED IN THE SECOND 5-YEAR REVIEW.

APPROXIMATED PLUME AS INTERPRETED FROM OCTOBER 2007 AND APRIL 2008 GROUNDWATER ANALYTICAL DATA.

SAMPLING LOCATIONS WILL BE ADJUSTED IN THE FIELD AS NECESSARY BASED ON THE ACTUAL SITE CONDITIONS SUCH AS THE LAYOUT OF THE SDE BUILDING, UNDERGROUND UTILITIES, AND WIND DIRECTION.

SOURCE: THIS DRAWING WAS RE-DRAFTED FROM T.F. MORAN, INC. "BOUNDARY PLAN OF LAND FOR NEW HAMPSHIRE BALL BEARINGS, INC.", DATED JANUARY 19, 1990.

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SOUTH MUNICIPAL WATER SUPPLY WELL SUPERFUND SITE
IA SAMPLING SUMMARY

FIGURE 3
SDE INDOOR AIR SAMPLING LOCATIONS

PETERBOROUGH, NEW HAMPSHIRE

PROJECT NO.: NHB033	SUBMITTAL DATE: NOVEMBER 2009
CAD DWG FILE: NHB033.200.0115	PLOT DATE: 11/20/09

ATTACHMENTS

ATTACHMENT A

Valley Chevrolet Olds Waste Notification From

154 155 600 temporary #

NHD 00000 2333

NEW HAMPSHIRE DIVISION OF PUBLIC HEALTH SERVICES
OFFICE OF WASTE MANAGEMENT
BUREAU OF HAZARDOUS WASTE COMPLIANCE & ENFORCEMENT
6 Hazen Drive, Concord, N.H. 03301-6527

RECEIVED
FEB 11 1987
Division of
Public Health Services
Bureau of Hazardous Waste

NOTIFICATION FORM

[Note: Section He-P 1905.02(c)(1) of the New Hampshire Hazardous Waste Rules requires notification of hazardous waste activity. To obtain an EPA identification number, complete and return this form to the address listed above. Please type or print using black ink.]

1. Company Name: VALLEY CHEVROLET - OLDS

2. Mailing Address: P.O. Box 3083 RTE 202 S
PETERBOROUGH N.H. 03458

3. Location (if different from above): _____

4. Company's Principal Activity (brief written description): SERVICE/SALES
OF CHEVROLET AND OLDSMOBILES

5. First or subsequent notification:

V A. First Notification (company has never been issued an EPA I.D. #)
_____ B. Subsequent Notification EPA I.D. #: NHD _____

6. Name of Principal Contact: RAY BAUMAN
title: SERVICE DIRECTOR phone: (603) 924-9231

7. Name(s) of legal company owner: ROBERT KORPI

8. Name(s) of property owner: SAME

~~R (illegible)~~

9. Type of ownership (see instructions for appropriate code) P

10. Type of regulated waste activity (enter X in all appropriate blocks)

A. _____ Generator (hazardous wastes are accumulated for up to 90 days)

_____ less than 100 kg (220 lb) per month
_____ 100 to 1000 kg per month
_____ more than 1000 kg per month

CENTERED

NONE OF THE ABOVE, WASTE is Recycled By SAFETY KLEEN CORP every nine weeks, it is less THAN 100 KG per month And we DON'T HAVE A Body SHOP SO WE GENERATE NO OTHER TYPES OF HAZARDOUS WASTES, SAFETY KLEEN CORP REQUIRES ALL THIER ACCOUNTS TO HAVE EPA ID #

VALLEY CHEVROLET OLDS

10 B. _____ Transporter (Note: transporter permits must be secured by all persons prior to transporting hazardous waste into or within the state of NH [He-P 1905.11(a)])

✓ highway ___air ___rail ___water ___ other (specify on back)

C. _____ Treatment/Storage/Disposal Facility (TSDF) (Note: permit required)

	Waste generated on-site:	✓ Waste rec'd from off-site:
storage for more than 90 days	_____	_____
treatment	_____	_____
other on-site disposal	_____	_____

D. _____ Hazardous Waste Fuel (Hazardous wastes burned for energy recovery) [see instruction sheet]

N/A _____ 1) fuel is burned on-site

_____ 2) fuel is marketed to another company which burns it

_____ 3) fuel is marketed to another company - not for burning

11. Does your company produce used oil? (see instructions) yes ✓ no ____

If no, skip to # 12.

A. If the used oil exceeds the allowable levels listed in the instructions-

___ it is burned on-site

___ it is marketed to another company which burns it

___ it is marketed to another company - not for burning

B. If the used oil does not exceed the allowable limits in the instructions-

_____ it is burned on-site

_____ it is marketed to another company which burns it

✓ it is marketed to another company - not for burning

C. Who is the first to claim that the oil meets the specifications (does not exceed the allowable limits listed in the instructions)?

✓ generator

___ company who has purchased the oil for burning

___ company who has purchased the oil - not for burning

12. On-site Waste Fuel Burning (hazardous waste fuel, specification waste oil fuel or off-spec waste oil fuel) Indicate the type of combustion device (see enclosed definitions).

NR

_____ utility boiler _____ industrial boiler _____ industrial furnace

13. Description of hazardous waste generation (use additional sheets if needed)

	Waste Name	EPA Waste Code*	Monthly Volume/Wt
a.	Petroleum Naphtha, Combustible	D001	
b.	Compound Cleaning Liquid, Corrosive	F002/F004	

14. Transporter and Disposal Method (see instructions) for wastes listed above

Waste Name	Transporter	Disposal/Treatment/Recycle
a and b	Safety Kleen Corp.	Solvent Recycling

15. Certification: I hereby certify that the information provided herein is complete and accurate to the best of my knowledge. I understand that all information contained in this notification form can be disclosed to the public, according to the Freedom of Information Act, unless deemed confidential under Section He-P 1905.02(d) of the Rules. I am authorized to sign official documents for my organization.

Ray B — 2/6/87

Signature printed or typed name and title date

* see He-P 1905.03(c) and appendices of the Rules

SAY/5743j/0003j/6-86

NEW HAMPSHIRE DIVISION OF PUBLIC HEALTH SERVICES-OFFICE OF WASTE MANAGEMENT
BUREAU OF HAZARDOUS WASTE COMPLIANCE & ENFORCEMENT

Instructions for preparing Notification form

NOTE: Please use black ink and type/print all items except for the signature required in Item 14.

Item 1. Company Name: Enter the full name of the company for which an EPA identification number is required.

Item 2. Mailing address: Enter the complete mailing address of the company.

Item 3. Location: Enter the physical address (actual location) of the company.

Item 4. Principal activity: Enter a brief description of the company's business activities (manufacturing of a product, etc...).

Item 5. First or Subsequent Notification: Place an X in the appropriate block to indicate whether this is your first or a subsequent notification. If you have previously filed a notification, enter your EPA identification number in the space provided.

Item 6. Principal contact: Enter the name and telephone number of the person who should be contacted regarding your company's hazardous waste activities.

Item 7. Legal owners: Enter the name of the legal owner(s) of the company.

Item 8. Property owners: Enter the name of the owner(s) of the property on which your company is located.

Item 9. Using the codes listed below, indicate the legal status of property ownership.

P=Private D=District M=Municipal C=County S=State
FF=Federally Owned and Operated FP=Federally Owned, Privately Operated
FC=Federally Owned, Operated by a Private Contractor to the Federal Government
PF=Privately Owned, Constructed for Use by and Operated by the Federal Government
PL=Privately Owned; Leased and Operated by the Federal Government
PI=Privately Owned, Indian Land FI=Federally Owned, Indian Land

Type of hazardous waste activity

Item 10A Generator: If your company produces a hazardous waste, place an X after letter A and mark the appropriate category based on the monthly amount of hazardous waste.

Item 10B Transporter: This activity requires your company to obtain a permit. If your company will transport hazardous waste, place an X after letter B and indicate each method of transportation that will be used.

Item 10C Treater/Storer/Disposer: If you treat or dispose of hazardous waste on-site, if you store your company's hazardous waste on-site more than 90 days or if you accept hazardous waste from off-site for treatment, storage or disposal, place an X after letter C and in the appropriate blank(s).

Item 10D Market or Burn Hazardous Waste Fuel: If your company markets or burns hazardous waste fuel, place an X in the appropriate section. [Hazardous Waste fuel is hazardous waste which is burned for energy recovery. This does not include waste oil unless the oil is contaminated with a hazardous waste(s) listed under He-P 1905.03(b).]

Item 11. "Used oil" means any oil that has been refined from crude oil, used, and as a result of such use, is contaminated by physical or chemical impurities. Place an X in the appropriate space.

Item 11A. and 11B.

The allowable levels for used oil are as follows:

arsenic	5 ppm	cadmium	2 ppm
chromium	10 ppm	lead	100 ppm
total halogens	4000 ppm	flash point	100° F.

Used oil that exceeds any specification level listed above is termed "off-specification used oil fuel." Used oil that does not exceed these levels is termed "specification used oil fuel."

Item 11C. Indicate the first person to claim that the used oil does not exceed the allowable levels.

Item 12. Refer to the enclosed definition sheet to determine the type of combustion device used to burn the hazardous waste fuel or off-specification used oil fuel.

Item 13. Description of Hazardous Waste: Companies that generate, treat, store or dispose of hazardous waste must complete this section. Enter the appropriate waste name, the EPA waste code listed in He-P 1905.03(c) and appendices of the Rules, and the monthly volume (in gallons) or weight (in pounds or kilograms).

Item 14. Transporter and method of disposal/treatment: For each waste listed above, enter the transporter, and the ultimate disposition of the waste (landfill), incineration, solvent recovery, etc...)

Item 15. Certification: This certification must be signed by the owner, operator or authorized representative of your company. An "authorized representative is a person responsible for overall operation of the company" (i.e. plant manager, superintendent or a person with equal responsibility). The notification must include the certification to be complete.

SAY/6-86/4624j/0003j

ATTACHMENT B

Pre-Sample Inspection Inventory Sheets

Hull & associates, inc.

4770 Duke Dr., Suite 300 | Mason, Ohio 45040

INDOOR AIR SAMPLING PRESAMPLING INSPECTION FORM

DATE: 10/20/09

WEATHER: 30s Sun

WIND SPEED/DIR: No observable Wind

OUTDOOR TEMP: 32°F

BAROMETRIC P:

INSPECTOR: S. Sojda

TIME OF INSPECTION: 0700

FACILITY INFORMATION

Micro Ball Area NHBB Facility

SITE:	South Municipal Water Supply Superfund Site	TYPE OF RELEASE:	Solvents including PCE, TCE, 1,1,1-TCA
CLIENT	New Hampshire Ball Bearings, Inc.	AGE OF RELEASE:	
ADDRESS:	Rt 202 S, Peterborough, NH	LOCATION OF RELEASE:	
CONTACT:	Patti Carrier	ANY OBSERVED ODORS:	
PHONE:		DESCRIBE HVAC SYSTEM:	
BUILDING TYPE:			
BUILDING AGE:			
NUMBER OF FLOORS:			
TYPE OF FOUNDATION:			

LIST PRODUCTS OR ITEMS WHICH MAY CONTRIBUTE TO VOC SOURCES WITHIN THE BUILDING

* = Castrol

POTENTIAL VOC SOURCE	PRESENT	LOCATION	PID	STORAGE CONDITION	PHOTO (Y/N)	PHOTO #		Comments
Paint or Paint Thinner	Cocguard 5810	Oil STORAGE	3.3	Good	N	NA		
Gas powered equipment	*Lapping oil/Compound 4113	↓	↓	↓	↓	↓		
Gasoline cans	*Hyspin AWS 46 → hydraulic oil							
Cleaning Solvents	*Syntilo 9951 oil							
Furniture Polish	*Rustilo DW 924 oil							
Moth Balls/Urinal Cakes	Fenella Oil CH401 (sh. 11)							
Fuel Tanks	*Rustilo 4163							
	*Hyspin VG 46							
	WINSOR 11G1							
	*Castrol VG 32							
	Mobil Gargoyle Arctic 155	↓	↓	↓	↓	↓		
	Lubricating oil							
	- See Next page for add. items							

POTENTIAL VAPOR ENTRY POINTS	PRESENT	LOCATION	PID	STORAGE CONDITION	PHOTO (Y/N)	PHOTO #		Comments
FOUNDATION PENETRATION IN FLOOR OR WALLS	Floor Intact	NA	NA	NA	NA	NA		
CRACKS IN FOUNDATION FLOOR OR WALLS	None	NA	→	→	→	→	→	
SUMPS	None	NA	→	→	→	→	→	
FLOOR DRAINS	None	NA	→	→	→	→	→	

NHBB microball

Hull & associates, inc.

SITE:	South Municipal Water Supply Superfund Site
CLIENT	New Hampshire Ball Bearings, Inc.
DATE:	10/20/09
TIME:	0700
INSPECTOR:	S. Soida

WAS THE BUILDING VENTED PRIOR TO SAMPLED COLLECTION? N HOW LONG? NA

ARE VAPOR CONTROL METHODS IN EFFECT (I.E. HOODS, OPEN DOORS) N

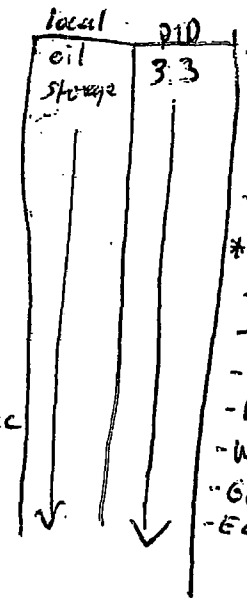
DESCRIBE: NA

LIST ANY RELEVANT INFORMATION WHICH WILL AID IN THE ACCURATE INTERPRETATION OF THE INDOOR AIR QUALITY SAMPLING RESULTS.

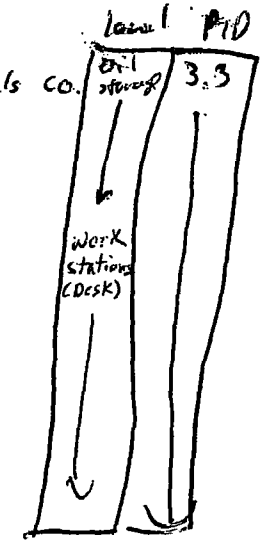
NOTES: Obtained 3.3 PID reading

Continued List

- Mobil hydraulic oil Light
- mobil #28 Grease
- mobil Velocite oil #3
- mobil Therm 603
- mobil DTE oil Heavy Medium
- * - ILOcut 5706
- CINDOL 4611 - Houghton International Inc
- Houghto-Draw 404
- Gear oil 220 - Ocean State oil Inc



- Kerosene
- Atlantic RP 416 - Atlantz Specialty chemicals co.
- chevron - Gear Compound EP ISO 460
- Krylon spray paint
- * - Kleen 3625
- Brulin 815 GR - Degreaser
- Citrisurf 2250 - Citric Acid
- LPS Electra-X - contact cleaner
- Dykem layout
- WD-40
- Gasoila - NT - thread Sealcut
- EZ Pour Super cleaner



NHBB Microball

Hull & associates, inc.

4770 Duke Dr., Suite 300 | Mason, Ohio 45040

INDOOR AIR SAMPLING PRESAMPLING INSPECTION FORM

DATE: 10/20/09

WEATHER: 30's Sun

WIND SPEED/DIR: No Observable Wind

OUTDOOR TEMP: 32° F

BAROMETRIC P:

INSPECTOR: S Sojda

TIME OF INSPECTION: 0910

FACILITY INFORMATION

High Bay Area NHBB Facility

SITE:	South Municipal Water Supply Superfund Site	TYPE OF RELEASE:	Solvents including PCE, TCE, 1,1,1-TCA
CLIENT	New Hampshire Ball Bearings, Inc.	AGE OF RELEASE:	
ADDRESS:	Rt 202 S, Peterborough, NH	LOCATION OF RELEASE:	
CONTACT:	Patti Carrier	ANY OBSERVED ODORS:	
PHONE:		DESCRIBE HVAC SYSTEM:	
BUILDING TYPE:			
BUILDING AGE:			
NUMBER OF FLOORS:			
TYPE OF FOUNDATION:			

LIST PRODUCTS OR ITEMS WHICH MAY CONTRIBUTE TO VOC SOURCES WITHIN THE BUILDING

POTENTIAL VOC SOURCE	PRESENT	LOCATION	PID	STORAGE CONDITION	PHOTO (Y/N)	PHOTO #		Comments
Paint or Paint Thinner	Castrol Syntilo 9913		4.0	Good	N	NA		
Gas powered equipment	LOCTITE 404	work station						
Gasoline cans	DYKEM steel blue layout fluid	Work station						
Cleaning Solvents	Castrol Puretila 4/63							
Furniture Polish	Kimtech lens cleaner solution							
Moth Balls/Urinal Cakes	Super Clean	Floor by 10-4/ everywhere						
Fuel Tanks								
	Mineral Spirits							
	DYKEM steel Red							

POTENTIAL VAPOR ENTRY POINTS	PRESENT	LOCATION	PID	STORAGE CONDITION	PHOTO (Y/N)	PHOTO #		Comments
FOUNDATION PENETRATION IN FLOOR OR WALLS	None	NA	NA	NA	NA	NA		
CRACKS IN FOUNDATION FLOOR OR WALLS	None							
SUMPS	None							
FLOOR DRAINS	None							

NHBB High bay

Hull & associates, inc.

SITE:	South Municipal Water Supply Superfund Site
CLIENT	New Hampshire Ball Bearings, Inc.
DATE:	10/20/09
TIME:	0910
INSPECTOR:	S. Sojda

WAS THE BUILDING VENTED PRIOR TO SAMPLED COLLECTION? NO HOW LONG? NA

ARE VAPOR CONTROL METHODS IN EFFECT (I.E. HOODS, OPEN DOORS) NO

DESCRIBE: NA

LIST ANY RELEVANT INFORMATION WHICH WILL AID IN THE ACCURATE INTERPRETATION OF THE INDOOR AIR QUALITY SAMPLING RESULTS.

NOTES: Sustained 4.0 on PID throughout area

NHBB HIGHBAY

Hull & associates, inc.

4770 Duke Dr., Suite 300 | Mason, Ohio 45040

INDOOR AIR SAMPLING PRESAMPLING INSPECTION FORM

DATE: 10/20/09

WEATHER: 30's Sun

WIND SPEED/DIR: No Observable Wind

OUTDOOR TEMP: 32°F

BAROMETRIC P:

INSPECTOR: S. Sojda

TIME OF INSPECTION: 0830

FACILITY INFORMATION

Storage Portion of SDE Building

SITE:	South Municipal Water Supply Superfund Site	TYPE OF RELEASE:	Solvents including PCE, TCE, 1,1,1-TCA
CLIENT	New Hampshire Ball Bearings, Inc.	AGE OF RELEASE:	
ADDRESS:	Rt 202 S, Peterborough, NH	LOCATION OF RELEASE:	
CONTACT:	Patti Carrier	ANY OBSERVED ODORS:	
PHONE:		DESCRIBE HVAC SYSTEM:	
BUILDING TYPE:			
BUILDING AGE:			
NUMBER OF FLOORS:			
TYPE OF FOUNDATION:			

LIST PRODUCTS OR ITEMS WHICH MAY CONTRIBUTE TO VOC SOURCES WITHIN THE BUILDING

POTENTIAL VOC SOURCE	PRESENT	LOCATION	PID	STORAGE CONDITION	PHOTO (Y/N)	PHOTO #		Comments
Paint or Paint Thinner	Super 77 spray glue	Work bench N side		Good	Y	7, 8		
Gas powered equipment	Sunny Side Carbo-sol							
Gasoline cans	-Solvent (cleaning)	"	0.3	Good				
Cleaning Solvents	~~DAP silicone sealant~~		0.0					
Furniture Polish	DAP Acrylic Caulk	"	0.0					
Moth Balls/Urinal Cakes	DAP Wallboard Joint Compound	"	0.0					
Fuel Tanks	Various Paints	"	0.0			9		
	Hercules Clear PVC Primer/ poly Cement	shelf NE side						
	Minwax Urethane	"						
	Minwax Stain/ Polyurethane	"						

POTENTIAL VAPOR ENTRY POINTS	PRESENT	LOCATION	PID	STORAGE CONDITION	PHOTO (Y/N)	PHOTO #		Comments
	see next sheet							
FOUNDATION PENETRATION IN FLOOR OR WALLS	NA Dirt Floor						→	
CRACKS IN FOUNDATION FLOOR OR WALLS	NA						→	
SUMPS								
FLOOR DRAINS								

SDE STORAGE

Hull & associates, inc.

SITE:	South Municipal Water Supply Superfund Site
CLIENT	New Hampshire Ball Bearings, Inc.
DATE:	10/20/09
TIME:	0830
INSPECTOR:	S. Sojda

WAS THE BUILDING VENTED PRIOR TO SAMPLED COLLECTION? NO HOW LONG? NA

ARE VAPOR CONTROL METHODS IN EFFECT (I.E. HOODS, OPEN DOORS) NO

DESCRIBE: NA

LIST ANY RELEVANT INFORMATION WHICH WILL AID IN THE ACCURATE INTERPRETATION OF THE INDOOR AIR QUALITY SAMPLING RESULTS.

NOTES: None

Continued List

	PID	Location	Storage condition	Photo
X-O Rust spray paint – shelf NE side	0.0	Shelves NE portion	Good	9
Rustoleum spray paint – shelf NE side				
Penetrol Paint Conditioner – "				
thompsons Water seal – "				
Watco Danish Oil Finish – "				

SDE STORAGE

Hull & associates, inc.

4770 Duke Dr., Suite 300 | Mason, Ohio 45040

INDOOR AIR SAMPLING PRESAMPLING INSPECTION FORM

DATE: 10/20/09

WEATHER: 30's Sun

WIND SPEED/DIR: No observable wind

OUTDOOR TEMP: 32°F

BAROMETRIC P:

INSPECTOR: S. Snyder

TIME OF INSPECTION: 0800

FACILITY INFORMATION

Office area of SDE Building

SITE:	South Municipal Water Supply Superfund Site	TYPE OF RELEASE:	Solvents including PCE, TCE, 1,1,1-TCA
CLIENT	New Hampshire Ball Bearings, Inc.	AGE OF RELEASE:	
ADDRESS:	Rt. 202 S, Peterborough, NH	LOCATION OF RELEASE:	
CONTACT:	Patti Carrier	ANY OBSERVED ODORS:	
PHONE:		DESCRIBE HVAC SYSTEM:	
BUILDING TYPE:			
BUILDING AGE:			
NUMBER OF FLOORS:			
TYPE OF FOUNDATION:			

LIST PRODUCTS OR ITEMS WHICH MAY CONTRIBUTE TO VOC SOURCES WITHIN THE BUILDING

POTENTIAL VOC SOURCE	PRESENT	LOCATION	PID	STORAGE CONDITION	PHOTO (Y/N)	PHOTO #		Comments
Paint or Paint Thinner	Liquid Nails	shelf N wall	0.0	Good	Y	1,2,3		
Gas powered equipment	3-in-one multipurpose oil	"	↓	↓	↓	↓		
Gasoline cans	Gorilla Glue	"						
Cleaning Solvents	Super 77 spray glue	"						
Furniture Polish	Woolite carpet cleaner	"						
Moth Balls/Urinal Cakes	QD ~~Static~~ Electronic cleaner	"						
Fuel Tanks	WD-40	"						
	Bissell Fabric + upholstry cleaner	"						
	Kilz - interior oil based spray	"						
	Krylon - spray paint	"						
	Clorox Disinfecting spray	Desk	↓	↓	↓	5		

*See back

POTENTIAL VAPOR ENTRY POINTS	PRESENT	LOCATION	PID	STORAGE CONDITION	PHOTO (Y/N)	PHOTO #		Comments
FOUNDATION PENETRATION IN FLOOR OR WALLS	None	NA →						→
CRACKS IN FOUNDATION FLOOR OR WALLS	None	↓						
SUMPS	None							
FLOOR DRAINS	None							

SDE OFFICE

Hull & associates, inc.

SITE:	South Municipal Water Supply Superfund Site
CLIENT	New Hampshire Ball Bearings, Inc.
DATE:	10/20/09
TIME:	0800
INSPECTOR:	S. Sojda

WAS THE BUILDING VENTED PRIOR TO SAMPLED COLLECTION? No HOW LONG? NA

ARE VAPOR CONTROL METHODS IN EFFECT (I.E. HOODS, OPEN DOORS) NA

DESCRIBE: NA

LIST ANY RELEVANT INFORMATION WHICH WILL AID IN THE ACCURATE INTERPRETATION OF THE INDOOR AIR QUALITY SAMPLING RESULTS.

NOTES: None

Continued List

ortho Hornet + Wasp Killer - Floor rear desk -
Board gear - dry erase Fluid - shelf S side
Krylon fusion - shelf S side
Premium Rust Preventitave Enamel - shelf S side
Terro Liquid Ant balls - shelf S side
Oust Air sanitizer - shelf S side
CB-80 Extra - insecticide - Floor rear desk

PID	Photo #4	Storage condition
0.0		good

SDEOAFCE

ATTACHMENT C

Weather Information from October 20-21, 2009 from Weather Underground

History for KNHPETER2

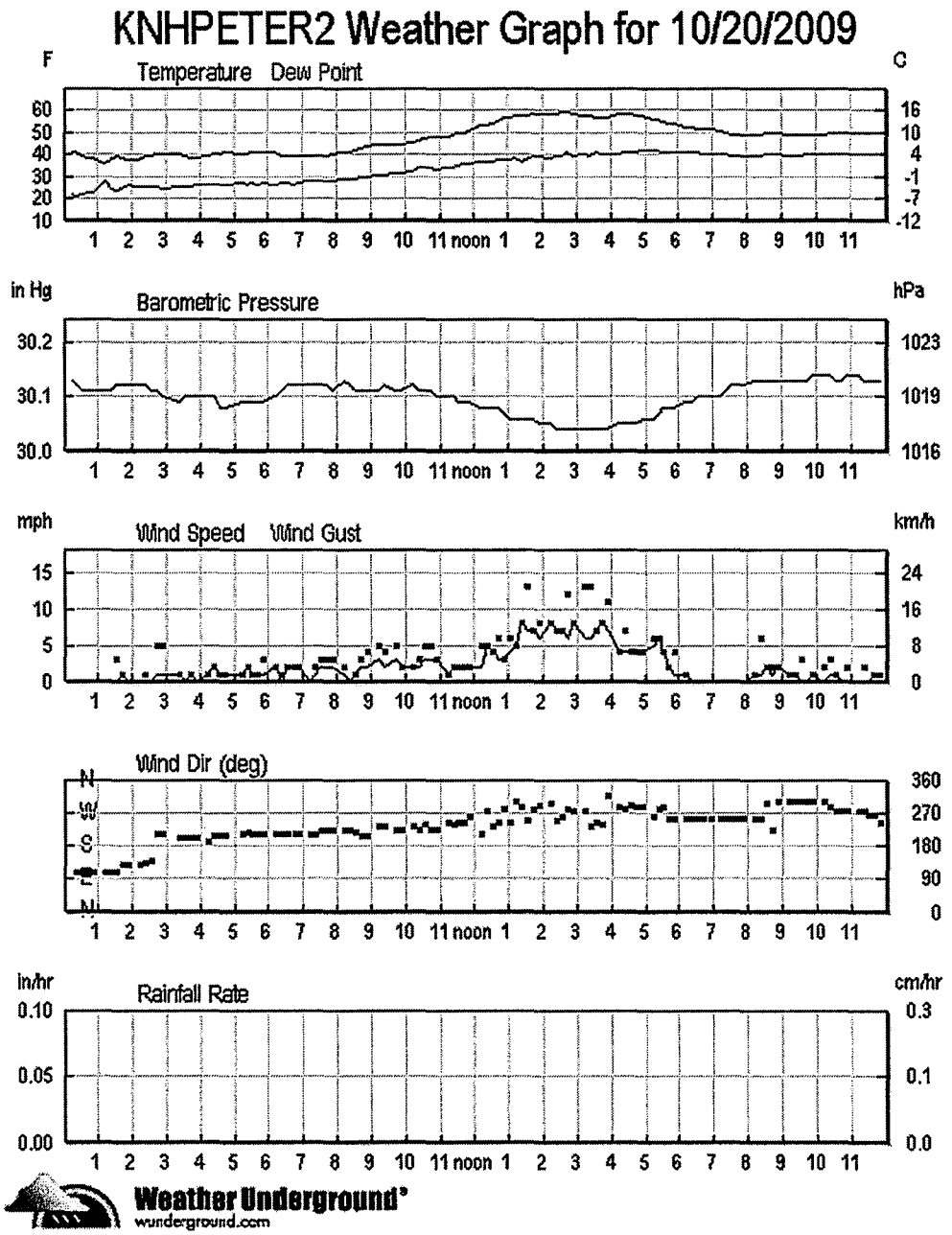
Stony Brook Farm, Peterborough, NH — Current Conditions

Daily Summary for October 20, 2009

	Current:	High:	Low:	Average:
Temperature:	**31.8** °F	**59.8** °F	**35.8** °F	**48.1** °F
Dew Point:	**31.0** °F	**42.4** °F	**21.4** °F	**34.4** °F
Humidity:	97%	75%	45%	59%
Wind Speed:	**11.0**mph	**8.0**mph	-	**2.1**mph
Wind Gust:	**11.0**mph	**13.0**mph	-	-
Wind:	ENE	-	-	West
Pressure:	**29.48**in	**30.14**in	**30.04**in	-
Precipitation:	**0.00**in			

Statistics for the rest of the month:

	High:	Low:	Average:
Temperature:	**68.4** °F	**27.2** °F	**45.6** °F
Dew Point:	**59.9** °F	**16.1** °F	**38.2** °F
Humidity:	99.0%	25.0%	76.9%
Wind Speed:	**16.0**mph from the SW	-	**2.4**mph
Wind Gust:	**21.0**mph from the SW	-	-
Wind:	-	-	SSW
Pressure:	**30.42**in	**29.35**in	-
Precipitation:	**2.60**in		



Tabular Data for October 20, 2009

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
00:14	**41.1** °F	**21.9** °F	**30.13**in	Calm		**0.0**mph	46%	**0.00**in
00:23	**41.2** °F	**21.4** °F	**30.12**in	Calm		**0.0**mph	45%	**0.00**in
00:33	**39.5** °F	**22.4** °F	**30.11**in	Calm		**0.0**mph	50%	**0.00**in
00:43	**38.8** °F	**23.1** °F	**30.11**in	Calm		**0.0**mph	53%	**0.00**in
00:53	**38.9** °F	**22.8** °F	**30.11**in	Calm		**0.0**mph	52%	**0.00**in
01:13	**35.8** °F	**28.6** °F	**30.11**in	Calm		**0.0**mph	75%	**0.00**in
01:23	**38.0** °F	**24.5** °F	**30.11**in	Calm		**0.0**mph	58%	**0.00**in
01:33	**39.8** °F	**24.0** °F	**30.12**in	Calm		**3.0**mph	53%	**0.00**in
01:43	**39.2** °F	**24.8** °F	**30.12**in	SE	**1.0**mph	**1.0**mph	56%	**0.00**in

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
01:53	37.9 °F	26.4 °F	30.12in	Calm		0.0mph	63%	0.00in
02:13	37.9 °F	25.6 °F	30.12in	Calm		0.0mph	61%	0.00in
02:23	39.3 °F	25.3 °F	30.12in	Calm		1.0mph	57%	0.00in
02:34	39.8 °F	25.4 °F	30.11in	Calm		0.0mph	56%	0.00in
02:43	40.2 °F	25.3 °F	30.11in	SW	1.0mph	5.0mph	55%	0.00in
02:53	40.5 °F	25.1 °F	30.10in	SSW	1.0mph	5.0mph	54%	0.00in
03:24	40.5 °F	25.6 °F	30.09in	SSW	1.0mph	1.0mph	55%	0.00in
03:33	39.5 °F	25.9 °F	30.10in	Calm		0.0mph	58%	0.00in
03:43	39.1 °F	26.0 °F	30.10in	SSW	1.0mph	1.0mph	59%	0.00in
03:53	39.1 °F	26.4 °F	30.10in	Calm		0.0mph	60%	0.00in
04:13	39.5 °F	26.3 °F	30.10in	South	1.0mph	1.0mph	59%	0.00in
04:24	40.2 °F	26.6 °F	30.10in	SSW	2.0mph	2.0mph	58%	0.00in
04:33	40.8 °F	26.7 °F	30.08in	SSW	1.0mph	1.0mph	57%	0.00in
04:44	41.6 °F	26.6 °F	30.08in	SSW	1.0mph	1.0mph	55%	0.00in
05:14	40.9 °F	27.2 °F	30.09in	SW	1.0mph	1.0mph	58%	0.00in
05:23	40.9 °F	26.8 °F	30.09in	SW	2.0mph	2.0mph	57%	0.00in
05:33	41.1 °F	27.0 °F	30.09in	SW	1.0mph	1.0mph	57%	0.00in
05:43	41.1 °F	26.6 °F	30.09in	SSW	1.0mph	1.0mph	56%	0.00in
05:53	41.5 °F	27.0 °F	30.09in	SW	1.0mph	3.0mph	56%	0.00in
06:13	41.2 °F	26.7 °F	30.10in	SSW	2.0mph	2.0mph	56%	0.00in
06:23	39.9 °F	27.1 °F	30.11in	Calm		1.0mph	60%	0.00in
06:33	39.8 °F	27.0 °F	30.12in	SSW	2.0mph	2.0mph	60%	0.00in
06:44	39.8 °F	26.6 °F	30.12in	SSW	2.0mph	2.0mph	59%	0.00in
06:53	39.9 °F	27.1 °F	30.12in	SSW	2.0mph	2.0mph	60%	0.00in
07:13	39.9 °F	27.9 °F	30.12in	Calm		0.0mph	62%	0.00in
07:23	39.5 °F	28.7 °F	30.12in	SSW	1.0mph	2.0mph	65%	0.00in
07:33	39.5 °F	28.3 °F	30.12in	SW	2.0mph	3.0mph	64%	0.00in
07:43	39.9 °F	28.7 °F	30.12in	SW	2.0mph	3.0mph	64%	0.00in
07:53	40.8 °F	28.4 °F	30.11in	SW	2.0mph	3.0mph	61%	0.00in
08:13	41.8 °F	29.3 °F	30.13in	SW	1.0mph	2.0mph	61%	0.00in
08:23	41.8 °F	29.3 °F	30.12in	Calm		0.0mph	61%	0.00in
08:33	42.1 °F	29.6 °F	30.11in	SW	1.0mph	1.0mph	61%	0.00in
08:43	43.1 °F	30.1 °F	30.11in	SSW	2.0mph	3.0mph	60%	0.00in
08:53	43.8 °F	30.4 °F	30.11in	SSW	2.0mph	4.0mph	59%	0.00in
09:13	44.6 °F	31.1 °F	30.11in	SW	3.0mph	5.0mph	59%	0.00in
09:23	44.6 °F	31.1 °F	30.12in	SW	2.0mph	4.0mph	59%	0.00in
09:43	44.6 °F	31.6 °F	30.11in	SW	3.0mph	5.0mph	60%	0.00in
09:53	45.1 °F	32.0 °F	30.11in	SW	2.0mph	2.0mph	60%	0.00in
10:13	46.1 °F	32.6 °F	30.12in	SW	2.0mph	2.0mph	59%	0.00in
10:23	47.0 °F	34.2 °F	30.11in	SW	2.0mph	3.0mph	61%	0.00in
10:33	47.6 °F	34.0 °F	30.11in	WSW	3.0mph	5.0mph	59%	0.00in
10:43	48.6 °F	34.0 °F	30.11in	SW	3.0mph	5.0mph	57%	0.00in
10:53	48.8 °F	33.8 °F	30.10in	SW	3.0mph	3.0mph	56%	0.00in

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
11:13	48.5 °F	34.4 °F	30.10in	WSW	1.0mph	1.0mph	58%	0.00in
11:23	49.1 °F	34.1 °F	30.10in	WSW	2.0mph	2.0mph	56%	0.00in
11:33	49.8 °F	35.2 °F	30.09in	WSW	2.0mph	2.0mph	57%	0.00in
11:43	50.4 °F	36.6 °F	30.09in	WSW	2.0mph	2.0mph	59%	0.00in
11:53	51.0 °F	36.3 °F	30.09in	West	2.0mph	2.0mph	57%	0.00in
12:13	53.6 °F	37.3 °F	30.08in	SSW	2.0mph	5.0mph	54%	0.00in
12:23	53.5 °F	37.3 °F	30.08in	West	5.0mph	5.0mph	54%	0.00in
12:33	54.7 °F	37.4 °F	30.08in	SW	4.0mph	4.0mph	52%	0.00in
12:43	55.3 °F	38.0 °F	30.08in	WSW	3.0mph	6.0mph	52%	0.00in
12:53	56.7 °F	38.3 °F	30.07in	WNW	3.0mph	3.0mph	50%	0.00in
13:03	57.5 °F	37.9 °F	30.06in	WSW	4.0mph	6.0mph	48%	0.00in
13:13	58.0 °F	38.4 °F	30.06in	WNW	5.0mph	5.0mph	48%	0.00in
13:23	57.6 °F	37.0 °F	30.06in	WNW	8.0mph	8.0mph	46%	0.00in
13:33	58.1 °F	38.0 °F	30.06in	WSW	7.0mph	13.0mph	47%	0.00in
13:43	58.6 °F	40.0 °F	30.06in	WNW	7.0mph	7.0mph	50%	0.00in
13:53	58.6 °F	40.0 °F	30.05in	WNW	6.0mph	8.0mph	50%	0.00in
14:13	58.6 °F	38.4 °F	30.05in	WNW	8.0mph	8.0mph	47%	0.00in
14:23	58.9 °F	39.8 °F	30.04in	WSW	7.0mph	7.0mph	49%	0.00in
14:33	59.5 °F	39.8 °F	30.04in	West	7.0mph	7.0mph	48%	0.00in
14:43	59.8 °F	41.6 °F	30.04in	WNW	6.0mph	12.0mph	51%	0.00in
14:53	59.3 °F	40.1 °F	30.04in	West	8.0mph	8.0mph	49%	0.00in
15:13	57.8 °F	40.8 °F	30.04in	West	6.0mph	13.0mph	53%	0.00in
15:23	57.6 °F	40.1 °F	30.04in	SW	6.0mph	13.0mph	52%	0.00in
15:33	57.5 °F	41.0 °F	30.04in	WSW	7.0mph	7.0mph	54%	0.00in
15:43	57.5 °F	40.5 °F	30.04in	WSW	8.0mph	8.0mph	53%	0.00in
15:53	57.5 °F	40.5 °F	30.04in	NW	7.0mph	11.0mph	53%	0.00in
16:13	58.6 °F	40.5 °F	30.05in	WNW	4.0mph	4.0mph	51%	0.00in
16:23	58.7 °F	41.1 °F	30.05in	WNW	4.0mph	7.0mph	52%	0.00in
16:33	58.6 °F	41.0 °F	30.05in	WNW	4.0mph	4.0mph	52%	0.00in
16:43	58.3 °F	41.2 °F	30.05in	WNW	4.0mph	4.0mph	53%	0.00in
16:54	58.0 °F	42.4 °F	30.06in	WNW	4.0mph	4.0mph	56%	0.00in
17:13	56.6 °F	42.4 °F	30.06in	West	5.0mph	6.0mph	59%	0.00in
17:23	56.0 °F	42.3 °F	30.07in	West	6.0mph	6.0mph	60%	0.00in
17:33	55.4 °F	41.7 °F	30.08in	WNW	4.0mph	4.0mph	60%	0.00in
17:43	54.8 °F	41.6 °F	30.08in	WSW	2.0mph	2.0mph	61%	0.00in
17:53	54.2 °F	41.5 °F	30.08in	WSW	1.0mph	4.0mph	62%	0.00in
18:13	53.2 °F	41.7 °F	30.09in	West	1.0mph	1.0mph	65%	0.00in
18:23	52.6 °F	41.2 °F	30.09in	Calm		0.0mph	65%	0.00in
18:33	52.0 °F	41.0 °F	30.10in	Calm		0.0mph	66%	0.00in
18:43	51.7 °F	40.7 °F	30.10in	Calm		0.0mph	66%	0.00in
18:54	51.6 °F	40.6 °F	30.10in	Calm		0.0mph	66%	0.00in
19:13	50.8 °F	40.2 °F	30.10in	Calm		0.0mph	67%	0.00in
19:23	50.4 °F	40.2 °F	30.11in	Calm		0.0mph	68%	0.00in

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
19:33	**49.1** °F	**40.1** °F	**30.12**in	Calm		**0.0**mph	71%	**0.00**in
19:43	**49.1** °F	**39.7** °F	**30.12**in	Calm		**0.0**mph	70%	**0.00**in
19:53	**49.1** °F	**40.1** °F	**30.12**in	Calm		**0.0**mph	71%	**0.00**in
20:13	**49.1** °F	**39.7** °F	**30.13**in	West	**1.0**mph	**1.0**mph	70%	**0.00**in
20:23	**49.4** °F	**40.0** °F	**30.13**in	West	**1.0**mph	**6.0**mph	70%	**0.00**in
20:33	**50.4** °F	**40.2** °F	**30.13**in	WNW	**2.0**mph	**2.0**mph	68%	**0.00**in
20:43	**50.2** °F	**40.4** °F	**30.13**in	SW	**1.0**mph	**2.0**mph	69%	**0.00**in
20:53	**50.4** °F	**40.2** °F	**30.13**in	NW	**2.0**mph	**2.0**mph	68%	**0.00**in
21:13	**49.6** °F	**39.8** °F	**30.13**in	NW	**1.0**mph	**1.0**mph	69%	**0.00**in
21:23	**49.5** °F	**40.1** °F	**30.13**in	NW	**1.0**mph	**1.0**mph	70%	**0.00**in
21:33	**49.6** °F	**39.8** °F	**30.13**in	Calm		**3.0**mph	69%	**0.00**in
21:43	**49.6** °F	**40.2** °F	**30.13**in	Calm		**0.0**mph	70%	**0.00**in
21:53	**49.4** °F	**40.4** °F	**30.14**in	NW	**1.0**mph	**1.0**mph	71%	**0.00**in
22:13	**49.6** °F	**40.2** °F	**30.14**in	Calm		**2.0**mph	70%	**0.00**in
22:23	**49.9** °F	**40.5** °F	**30.14**in	WNW	**1.0**mph	**3.0**mph	70%	**0.00**in
22:33	**49.9** °F	**40.5** °F	**30.13**in	West	**1.0**mph	**1.0**mph	70%	**0.00**in
22:43	**49.8** °F	**40.8** °F	**30.13**in	Calm		**0.0**mph	71%	**0.00**in
22:53	**50.1** °F	**40.7** °F	**30.14**in	Calm		**2.0**mph	70%	**0.00**in
23:13	**49.8** °F	**40.8** °F	**30.14**in	Calm		**0.0**mph	71%	**0.00**in
23:23	**49.8** °F	**40.8** °F	**30.13**in	Calm		**2.0**mph	71%	**0.00**in
23:33	**49.9** °F	**40.9** °F	**30.13**in	Calm		**0.0**mph	71%	**0.00**in
23:43	**49.9** °F	**40.9** °F	**30.13**in	West	**1.0**mph	**1.0**mph	71%	**0.00**in
23:53	**49.9** °F	**40.9** °F	**30.13**in	WSW	**1.0**mph	**1.0**mph	71%	**0.00**in

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History for KNHPETER2

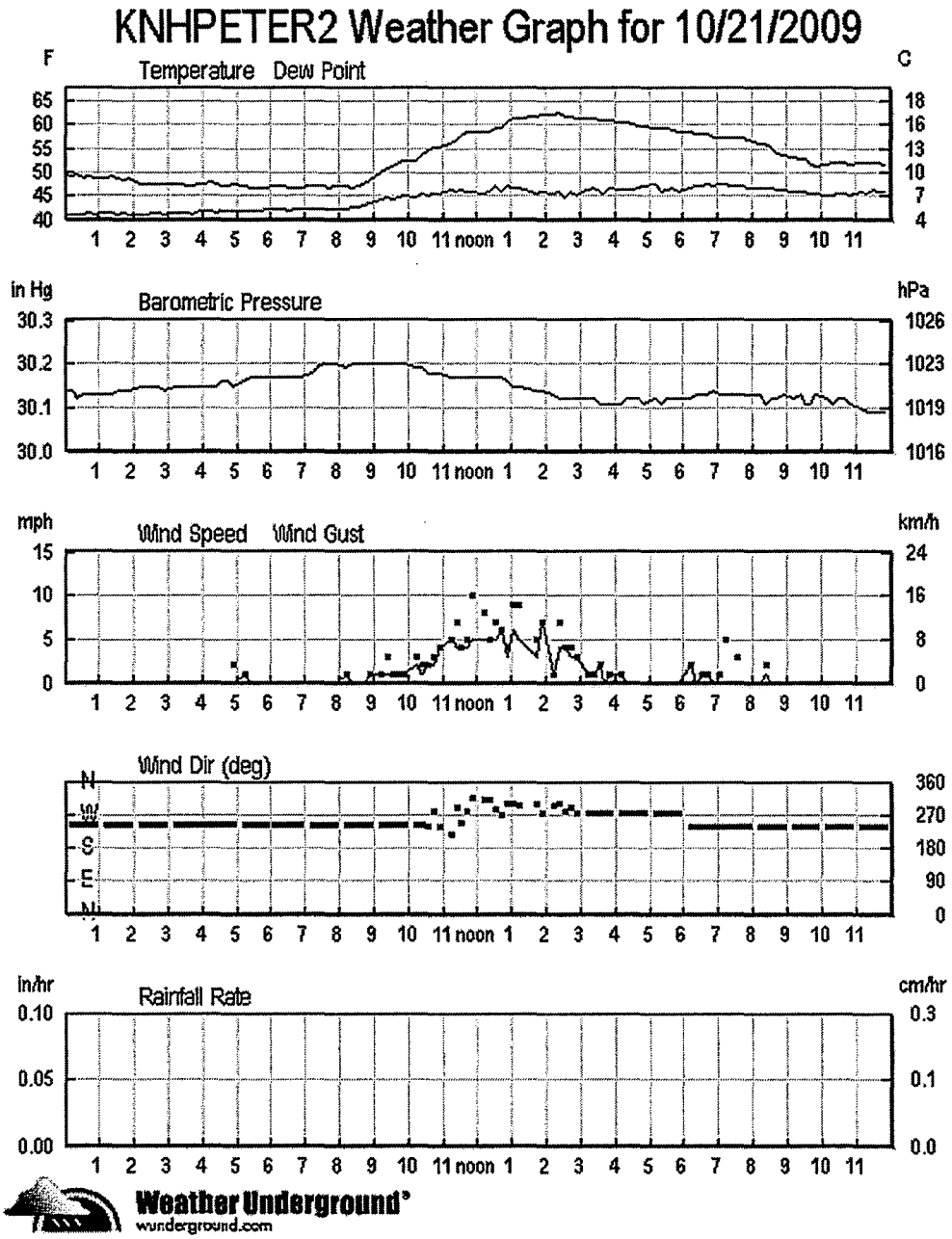
Stony Brook Farm, Peterborough, NH — Current Conditions

Daily Summary for October 21, 2009

	Current:	High:	Low:	Average:
Temperature:	**31.8** °F	**62.7** °F	**46.7** °F	**53.2** °F
Dew Point:	**31.0** °F	**47.5** °F	**40.9** °F	**44.4** °F
Humidity:	97%	85%	54%	73%
Wind Speed:	**11.0**mph	**7.0**mph	-	**0.9**mph
Wind Gust:	**11.0**mph	**10.0**mph	-	-
Wind:	ENE	-	-	West
Pressure:	**29.48**in	**30.20**in	**30.09**in	-
Precipitation:	**0.00**in			

Statistics for the rest of the month:

	High:	Low:	Average:
Temperature:	**68.4** °F	**27.2** °F	**45.6** °F
Dew Point:	**59.9** °F	**16.1** °F	**38.2** °F
Humidity:	99.0%	25.0%	76.9%
Wind Speed:	**16.0**mph from the SW	-	**2.4**mph
Wind Gust:	**21.0**mph from the SW	-	-
Wind:	-	-	SSW
Pressure:	**30.42**in	**29.35**in	-
Precipitation:	**2.60**in		



Tabular Data for October 21, 2009

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
00:03	**49.6** °F	**40.9** °F	**30.14**in	Calm		**0.0**mph	72%	**0.00**in
00:13	**49.2** °F	**40.9** °F	**30.14**in	Calm		**0.0**mph	73%	**0.00**in
00:23	**49.4** °F	**41.1** °F	**30.12**in	Calm		**0.0**mph	73%	**0.00**in
00:33	**48.9** °F	**41.0** °F	**30.13**in	Calm		**0.0**mph	74%	**0.00**in
00:43	**49.2** °F	**41.3** °F	**30.13**in	Calm		**0.0**mph	74%	**0.00**in
00:53	**48.8** °F	**41.2** °F	**30.13**in	Calm		**0.0**mph	75%	**0.00**in
01:13	**48.9** °F	**41.3** °F	**30.13**in	Calm		**0.0**mph	75%	**0.00**in
01:23	**49.1** °F	**41.5** °F	**30.13**in	Calm		**0.0**mph	75%	**0.00**in
01:33	**48.8** °F	**41.2** °F	**30.14**in	Calm		**0.0**mph	75%	**0.00**in

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
01:43	48.5 °F	41.3 °F	30.14in	Calm		0.0mph	76%	0.00in
01:53	48.6 °F	41.0 °F	30.14in	Calm		0.0mph	75%	0.00in
02:13	47.6 °F	41.1 °F	30.15in	Calm		0.0mph	78%	0.00in
02:23	47.4 °F	41.2 °F	30.15in	Calm		0.0mph	79%	0.00in
02:33	47.6 °F	41.4 °F	30.15in	Calm		0.0mph	79%	0.00in
02:43	47.6 °F	41.4 °F	30.15in	Calm		0.0mph	79%	0.00in
02:53	47.4 °F	41.2 °F	30.14in	Calm		0.0mph	79%	0.00in
03:13	47.7 °F	41.5 °F	30.15in	Calm		0.0mph	79%	0.00in
03:23	47.7 °F	41.5 °F	30.15in	Calm		0.0mph	79%	0.00in
03:33	47.3 °F	41.4 °F	30.15in	Calm		0.0mph	80%	0.00in
03:43	47.1 °F	41.2 °F	30.15in	Calm		0.0mph	80%	0.00in
03:53	47.7 °F	41.8 °F	30.15in	Calm		0.0mph	80%	0.00in
04:04	47.7 °F	41.8 °F	30.15in	Calm		0.0mph	80%	0.00in
04:13	48.0 °F	41.8 °F	30.15in	Calm		0.0mph	79%	0.00in
04:23	47.4 °F	41.5 °F	30.15in	Calm		0.0mph	80%	0.00in
04:33	47.0 °F	41.8 °F	30.16in	Calm		0.0mph	82%	0.00in
04:43	47.0 °F	41.8 °F	30.16in	Calm		0.0mph	82%	0.00in
04:53	47.4 °F	41.9 °F	30.15in	Calm		2.0mph	81%	0.00in
05:13	47.1 °F	41.9 °F	30.16in	WSW	1.0mph	1.0mph	82%	0.00in
05:23	46.8 °F	41.9 °F	30.17in	Calm		0.0mph	83%	0.00in
05:33	46.8 °F	41.9 °F	30.17in	Calm		0.0mph	83%	0.00in
05:43	46.8 °F	41.9 °F	30.17in	Calm		0.0mph	83%	0.00in
05:53	46.8 °F	42.2 °F	30.17in	Calm		0.0mph	84%	0.00in
06:04	47.1 °F	42.2 °F	30.17in	Calm		0.0mph	83%	0.00in
06:13	47.3 °F	42.4 °F	30.17in	Calm		0.0mph	83%	0.00in
06:23	47.1 °F	42.2 °F	30.17in	Calm		0.0mph	83%	0.00in
06:33	46.7 °F	41.8 °F	30.17in	Calm		0.0mph	83%	0.00in
06:43	46.7 °F	42.1 °F	30.17in	Calm		0.0mph	84%	0.00in
06:53	46.7 °F	42.1 °F	30.17in	Calm		0.0mph	84%	0.00in
07:13	47.0 °F	42.4 °F	30.18in	Calm		0.0mph	84%	0.00in
07:23	47.0 °F	42.4 °F	30.19in	Calm		0.0mph	84%	0.00in
07:33	47.0 °F	42.1 °F	30.20in	Calm		0.0mph	83%	0.00in
07:43	46.8 °F	42.2 °F	30.20in	Calm		0.0mph	84%	0.00in
07:53	47.0 °F	42.4 °F	30.20in	Calm		0.0mph	84%	0.00in
08:13	47.3 °F	42.4 °F	30.19in	WSW	1.0mph	1.0mph	83%	0.00in
08:23	46.8 °F	42.5 °F	30.20in	Calm		0.0mph	85%	0.00in
08:33	47.0 °F	42.7 °F	30.20in	Calm		0.0mph	85%	0.00in
08:44	47.6 °F	43.0 °F	30.20in	Calm		0.0mph	84%	0.00in
08:53	48.2 °F	43.3 °F	30.20in	WSW	1.0mph	1.0mph	83%	0.00in
09:13	50.1 °F	44.2 °F	30.20in	WSW	1.0mph	1.0mph	80%	0.00in
09:23	50.8 °F	44.5 °F	30.20in	WSW	1.0mph	3.0mph	79%	0.00in
09:33	51.4 °F	44.4 °F	30.20in	WSW	1.0mph	1.0mph	77%	0.00in
09:43	51.9 °F	44.6 °F	30.20in	WSW	1.0mph	1.0mph	76%	0.00in

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
09:53	52.5 °F	45.2 °F	30.20in	WSW	1.0mph	1.0mph	76%	0.00in
10:13	52.6 °F	44.5 °F	30.19in	WSW	2.0mph	3.0mph	74%	0.00in
10:23	53.6 °F	45.5 °F	30.19in	WSW	1.0mph	2.0mph	74%	0.00in
10:33	54.4 °F	45.2 °F	30.18in	WSW	2.0mph	2.0mph	71%	0.00in
10:43	55.1 °F	45.5 °F	30.18in	WNW	2.0mph	3.0mph	70%	0.00in
10:53	55.3 °F	45.3 °F	30.18in	WSW	4.0mph	4.0mph	69%	0.00in
11:13	56.2 °F	46.2 °F	30.17in	SW	5.0mph	5.0mph	69%	0.00in
11:23	56.9 °F	46.1 °F	30.17in	WNW	4.0mph	7.0mph	67%	0.00in
11:33	57.8 °F	46.5 °F	30.17in	WSW	4.0mph	4.0mph	66%	0.00in
11:43	58.6 °F	46.0 °F	30.17in	WNW	4.0mph	5.0mph	63%	0.00in
11:53	58.7 °F	46.1 °F	30.17in	NW	5.0mph	10.0mph	63%	0.00in
12:13	58.6 °F	45.6 °F	30.17in	NW	5.0mph	8.0mph	62%	0.00in
12:23	58.7 °F	46.1 °F	30.17in	NW	5.0mph	5.0mph	63%	0.00in
12:33	59.5 °F	47.3 °F	30.17in	WNW	5.0mph	7.0mph	64%	0.00in
12:43	59.5 °F	46.0 °F	30.17in	West	6.0mph	6.0mph	61%	0.00in
12:53	60.4 °F	47.3 °F	30.16in	WNW	3.0mph	4.0mph	62%	0.00in
13:03	61.2 °F	46.8 °F	30.15in	NW	6.0mph	9.0mph	59%	0.00in
13:13	61.5 °F	46.6 °F	30.15in	WNW	5.0mph	9.0mph	58%	0.00in
13:43	61.6 °F	45.7 °F	30.14in	NW	3.0mph	5.0mph	56%	0.00in
13:53	62.3 °F	45.9 °F	30.14in	West	7.0mph	7.0mph	55%	0.00in
14:13	62.0 °F	45.6 °F	30.13in	WNW	1.0mph	1.0mph	55%	0.00in
14:23	62.7 °F	45.8 °F	30.12in	NW	4.0mph	7.0mph	54%	0.00in
14:33	61.6 °F	44.8 °F	30.12in	WNW	4.0mph	4.0mph	54%	0.00in
14:43	61.8 °F	45.9 °F	30.12in	WNW	3.0mph	4.0mph	56%	0.00in
14:52	61.3 °F	45.0 °F	30.12in	West	3.0mph	3.0mph	55%	0.00in
15:13	61.3 °F	46.4 °F	30.12in	West	1.0mph	1.0mph	58%	0.00in
15:22	61.2 °F	46.8 °F	30.12in	West	1.0mph	1.0mph	59%	0.00in
15:32	61.0 °F	46.1 °F	30.11in	West	2.0mph	2.0mph	58%	0.00in
15:42	61.0 °F	45.7 °F	30.11in	Calm		0.0mph	57%	0.00in
15:52	60.9 °F	46.9 °F	30.11in	West	1.0mph	1.0mph	60%	0.00in
16:12	60.5 °F	46.5 °F	30.11in	West	1.0mph	1.0mph	60%	0.00in
16:22	60.4 °F	46.4 °F	30.12in	Calm		0.0mph	60%	0.00in
16:32	60.2 °F	46.3 °F	30.12in	Calm		0.0mph	60%	0.00in
16:42	59.9 °F	46.8 °F	30.12in	Calm		0.0mph	62%	0.00in
16:52	59.8 °F	47.2 °F	30.11in	Calm		0.0mph	63%	0.00in
17:12	59.3 °F	47.5 °F	30.12in	Calm		0.0mph	65%	0.00in
17:22	59.5 °F	46.0 °F	30.11in	Calm		0.0mph	61%	0.00in
17:32	59.2 °F	46.2 °F	30.12in	Calm		0.0mph	62%	0.00in
17:42	59.0 °F	46.8 °F	30.12in	Calm		0.0mph	64%	0.00in
17:52	58.7 °F	46.1 °F	30.12in	Calm		0.0mph	63%	0.00in
18:12	58.4 °F	46.7 °F	30.12in	WSW	2.0mph	2.0mph	65%	0.00in
18:22	58.0 °F	47.1 °F	30.13in	Calm		0.0mph	67%	0.00in
18:32	58.0 °F	47.1 °F	30.13in	WSW	1.0mph	1.0mph	67%	0.00in

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
18:42	**58.0** °F	**47.5** °F	**30.13**in	WSW	**1.0**mph	**1.0**mph	68%	**0.00**in
18:52	**57.5** °F	**47.0** °F	**30.14**in	Calm		**0.0**mph	68%	**0.00**in
19:02	**57.5** °F	**47.4** °F	**30.13**in	Calm		**1.0**mph	69%	**0.00**in
19:12	**57.5** °F	**47.4** °F	**30.13**in	Calm		**5.0**mph	69%	**0.00**in
19:22	**57.3** °F	**47.2** °F	**30.13**in	Calm		**0.0**mph	69%	**0.00**in
19:32	**57.3** °F	**47.2** °F	**30.13**in	Calm		**3.0**mph	69%	**0.00**in
19:42	**57.2** °F	**47.1** °F	**30.13**in	Calm		**0.0**mph	69%	**0.00**in
19:52	**56.9** °F	**46.8** °F	**30.13**in	Calm		**0.0**mph	69%	**0.00**in
20:12	**56.2** °F	**46.9** °F	**30.13**in	Calm		**0.0**mph	71%	**0.00**in
20:22	**55.9** °F	**46.6** °F	**30.11**in	WSW	**1.0**mph	**2.0**mph	71%	**0.00**in
20:32	**55.1** °F	**46.6** °F	**30.12**in	Calm		**0.0**mph	73%	**0.00**in
20:42	**54.1** °F	**46.3** °F	**30.12**in	Calm		**0.0**mph	75%	**0.00**in
20:52	**53.5** °F	**46.5** °F	**30.13**in	Calm		**0.0**mph	77%	**0.00**in
21:12	**53.1** °F	**46.1** °F	**30.12**in	Calm		**0.0**mph	77%	**0.00**in
21:22	**52.9** °F	**45.9** °F	**30.13**in	Calm		**0.0**mph	77%	**0.00**in
21:32	**52.8** °F	**45.8** °F	**30.11**in	Calm		**0.0**mph	77%	**0.00**in
21:41	**52.0** °F	**45.4** °F	**30.11**in	Calm		**0.0**mph	78%	**0.00**in
21:52	**51.3** °F	**45.3** °F	**30.13**in	Calm		**0.0**mph	80%	**0.00**in
22:11	**51.7** °F	**45.1** °F	**30.12**in	Calm		**0.0**mph	78%	**0.00**in
22:22	**52.2** °F	**44.9** °F	**30.11**in	Calm		**0.0**mph	76%	**0.00**in
22:31	**51.9** °F	**45.3** °F	**30.12**in	Calm		**0.0**mph	78%	**0.00**in
22:41	**51.9** °F	**45.3** °F	**30.12**in	Calm		**0.0**mph	78%	**0.00**in
22:51	**51.7** °F	**45.1** °F	**30.11**in	Calm		**0.0**mph	78%	**0.00**in
23:11	**51.9** °F	**45.9** °F	**30.10**in	Calm		**0.0**mph	80%	**0.00**in
23:21	**51.9** °F	**45.6** °F	**30.09**in	Calm		**0.0**mph	79%	**0.00**in
23:31	**52.2** °F	**46.2** °F	**30.09**in	Calm		**0.0**mph	80%	**0.00**in
23:41	**51.9** °F	**45.9** °F	**30.09**in	Calm		**0.0**mph	80%	**0.00**in
23:51	**51.7** °F	**46.1** °F	**30.09**in	Calm		**0.0**mph	81%	**0.00**in

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History for KNHPETER3

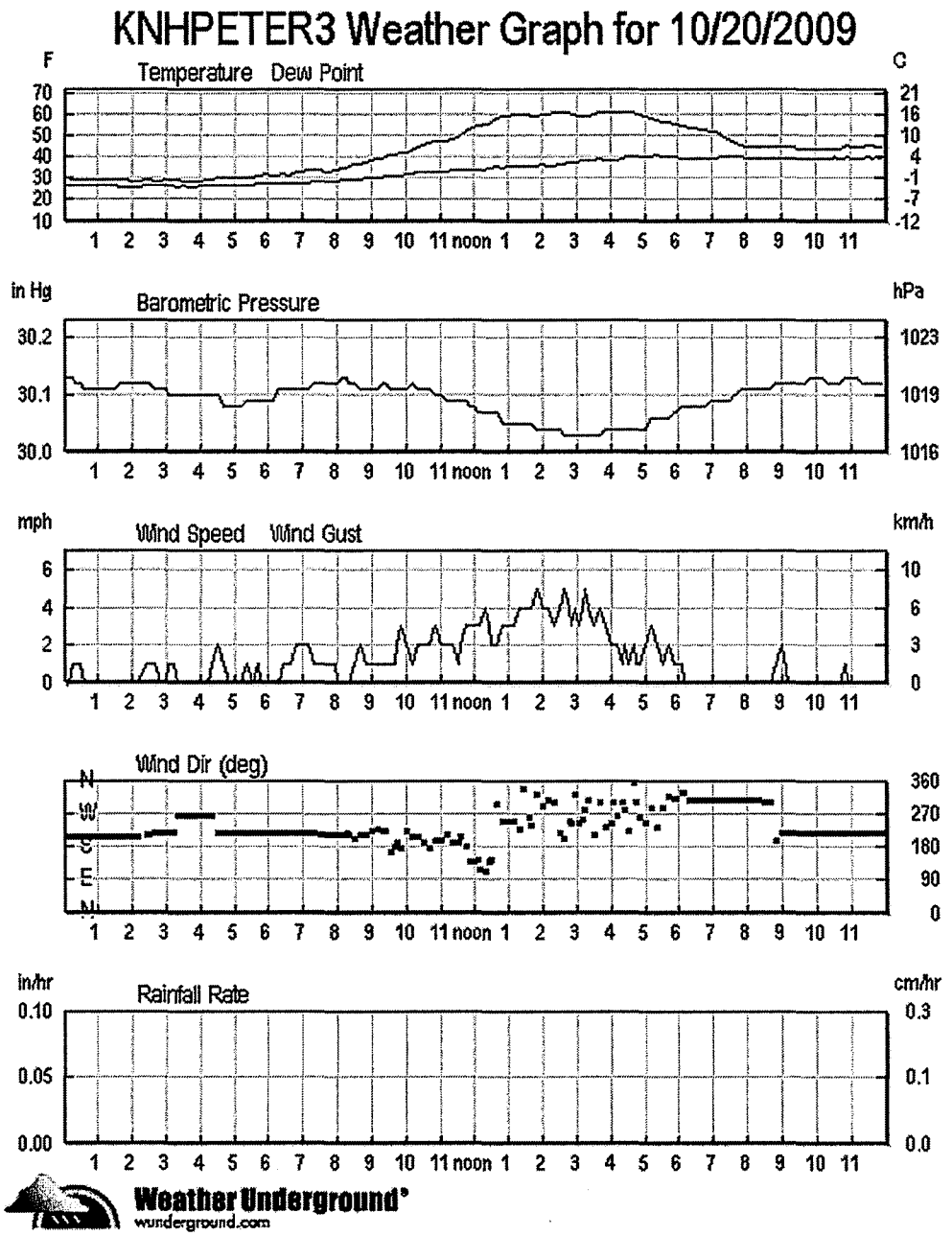
Region 14 ATC/ConVal HS, Peterborough, NH — Current Conditions

Daily Summary for October 20, 2009

	Current:	High:	Low:	Average:
Temperature:	**31.9** °F	**62.1** °F	**29.0** °F	**44.2** °F
Dew Point:	**31.9** °F	**41.2** °F	**26.3** °F	**33.9** °F
Humidity:	100%	91%	39%	70%
Wind Speed:	**5.0**mph	**5.0**mph	-	**1.2**mph
Wind Gust:	-	**0.0**mph	-	-
Wind:	North	-	-	WSW
Pressure:	**29.50**in	**30.13**in	**30.03**in	-
Precipitation:	**0.01**in			

Statistics for the rest of the month:

	High:	Low:	Average:
Temperature:	**71.5** °F	**23.3** °F	**45.8** °F
Dew Point:	**64.0** °F	**11.2** °F	**38.4** °F
Humidity:	100.0%	18.0%	77.7%
Wind Speed:	**13.0**mph from the SW	-	**2.0**mph
Wind Gust:	**0.0**mph from the North	-	-
Wind:	-	-	SSW
Pressure:	**30.39**in	**29.34**in	-
Precipitation:	**5.51**in		



Tabular Data for October 20, 2009

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
00:00	**30.4** °F	**27.0** °F	**30.13**in	Calm		-	87%	**0.00**in
00:05	**30.3** °F	**26.9** °F	**30.13**in	Calm		-	87%	**0.00**in
00:10	**30.3** °F	**27.2** °F	**30.13**in	Calm		-	88%	**0.00**in
00:15	**30.1** °F	**27.0** °F	**30.13**in	SSW	**1.0**mph	-	88%	**0.00**in
00:20	**30.1** °F	**27.0** °F	**30.12**in	SSW	**1.0**mph	-	88%	**0.00**in
00:25	**30.1** °F	**27.0** °F	**30.12**in	SSW	**1.0**mph	-	88%	**0.00**in
00:30	**30.1** °F	**27.0** °F	**30.12**in	SSW	**1.0**mph	-	88%	**0.00**in
00:35	**30.0** °F	**26.9** °F	**30.11**in	Calm		-	88%	**0.00**in
00:40	**30.0** °F	**26.9** °F	**30.11**in	Calm		-	88%	**0.00**in

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
00:50	**29.8** °F	**27.0** °F	**30.11**in	Calm		-	89%	**0.00**in
01:00	**29.5** °F	**26.7** °F	**30.11**in	Calm		-	89%	**0.00**in
01:10	**29.5** °F	**26.7** °F	**30.11**in	Calm		-	89%	**0.00**in
01:20	**29.7** °F	**26.9** °F	**30.11**in	Calm		-	89%	**0.00**in
01:30	**29.7** °F	**26.9** °F	**30.11**in	Calm		-	89%	**0.00**in
01:40	**29.4** °F	**26.6** °F	**30.12**in	Calm		-	89%	**0.00**in
01:45	**29.4** °F	**26.6** °F	**30.12**in	Calm		-	89%	**0.00**in
01:50	**29.4** °F	**26.6** °F	**30.12**in	Calm		-	89%	**0.00**in
02:00	**29.3** °F	**26.5** °F	**30.12**in	Calm		-	89%	**0.00**in
02:10	**29.1** °F	**26.5** °F	**30.12**in	Calm		-	90%	**0.00**in
02:25	**29.4** °F	**26.8** °F	**30.12**in	SW	**1.0**mph	-	90%	**0.00**in
02:30	**29.5** °F	**26.7** °F	**30.12**in	SW	**1.0**mph	-	89%	**0.00**in
02:40	**29.3** °F	**26.7** °F	**30.11**in	SW	**1.0**mph	-	90%	**0.00**in
02:50	**29.3** °F	**26.7** °F	**30.11**in	Calm		-	90%	**0.00**in
03:00	**29.4** °F	**26.8** °F	**30.11**in	Calm		-	90%	**0.00**in
03:05	**29.5** °F	**26.7** °F	**30.10**in	SW	**1.0**mph	-	89%	**0.00**in
03:15	**29.4** °F	**26.8** °F	**30.10**in	SW	**1.0**mph	-	90%	**0.00**in
03:20	**29.4** °F	**26.6** °F	**30.10**in	Calm		-	89%	**0.00**in
03:30	**29.3** °F	**27.0** °F	**30.10**in	Calm		-	91%	**0.00**in
03:40	**29.1** °F	**26.3** °F	**30.10**in	Calm		-	89%	**0.00**in
03:50	**29.0** °F	**26.4** °F	**30.10**in	Calm		-	90%	**0.00**in
04:00	**29.3** °F	**26.7** °F	**30.10**in	Calm		-	90%	**0.00**in
04:10	**29.7** °F	**26.9** °F	**30.10**in	Calm		-	89%	**0.00**in
04:15	**29.8** °F	**27.0** °F	**30.10**in	Calm		-	89%	**0.00**in
04:20	**30.1** °F	**27.0** °F	**30.10**in	West	**1.0**mph	-	88%	**0.00**in
04:30	**31.0** °F	**27.0** °F	**30.10**in	SW	**2.0**mph	-	85%	**0.00**in
04:40	**31.0** °F	**27.0** °F	**30.08**in	SW	**1.0**mph	-	85%	**0.00**in
04:50	**31.2** °F	**27.5** °F	**30.08**in	Calm		-	86%	**0.00**in
04:55	**31.0** °F	**27.3** °F	**30.08**in	Calm		-	86%	**0.00**in
05:00	**31.2** °F	**27.2** °F	**30.08**in	Calm		-	85%	**0.00**in
05:10	**30.7** °F	**27.3** °F	**30.08**in	Calm		-	87%	**0.00**in
05:20	**30.9** °F	**27.5** °F	**30.09**in	SW	**1.0**mph	-	87%	**0.00**in
05:30	**30.7** °F	**27.3** °F	**30.09**in	Calm		-	87%	**0.00**in
05:40	**31.3** °F	**27.6** °F	**30.09**in	SW	**1.0**mph	-	86%	**0.00**in
05:45	**31.6** °F	**27.6** °F	**30.09**in	Calm		-	85%	**0.00**in
05:55	**32.2** °F	**27.6** °F	**30.09**in	Calm		-	83%	**0.00**in
06:05	**31.9** °F	**27.6** °F	**30.09**in	Calm		-	84%	**0.00**in
06:10	**31.9** °F	**27.6** °F	**30.09**in	Calm		-	84%	**0.00**in
06:20	**32.1** °F	**27.8** °F	**30.11**in	Calm		-	84%	**0.00**in
06:25	**32.7** °F	**27.8** °F	**30.11**in	SW	**1.0**mph	-	82%	**0.00**in
06:35	**31.9** °F	**27.9** °F	**30.11**in	SW	**1.0**mph	-	85%	**0.00**in
06:40	**31.9** °F	**27.9** °F	**30.11**in	SW	**1.0**mph	-	85%	**0.00**in
06:50	**33.8** °F	**28.0** °F	**30.11**in	SW	**2.0**mph	-	79%	**0.00**in

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
06:55	**33.7** °F	**28.2** °F	**30.11**in	SW	**2.0**mph	-	80%	**0.00**in
07:00	**33.2** °F	**28.3** °F	**30.11**in	SW	**2.0**mph	-	82%	**0.00**in
07:10	**34.1** °F	**28.3** °F	**30.11**in	SW	**2.0**mph	-	79%	**0.00**in
07:20	**34.0** °F	**28.5** °F	**30.12**in	SW	**1.0**mph	-	80%	**0.00**in
07:30	**34.1** °F	**28.6** °F	**30.12**in	SW	**1.0**mph	-	80%	**0.00**in
07:40	**33.8** °F	**28.9** °F	**30.12**in	SW	**1.0**mph	-	82%	**0.00**in
07:50	**33.8** °F	**29.2** °F	**30.12**in	SW	**1.0**mph	-	83%	**0.00**in
07:55	**34.0** °F	**29.1** °F	**30.12**in	SW	**1.0**mph	-	82%	**0.00**in
08:00	**34.4** °F	**29.2** °F	**30.12**in	Calm		-	81%	**0.00**in
08:10	**35.3** °F	**29.7** °F	**30.13**in	Calm		-	80%	**0.00**in
08:15	**35.6** °F	**29.7** °F	**30.13**in	Calm		-	79%	**0.00**in
08:20	**35.9** °F	**29.7** °F	**30.12**in	Calm		-	78%	**0.00**in
08:30	**37.0** °F	**30.1** °F	**30.12**in	SSW	**1.0**mph	-	76%	**0.00**in
08:40	**37.2** °F	**30.0** °F	**30.11**in	SW	**2.0**mph	-	75%	**0.00**in
08:50	**37.6** °F	**30.4** °F	**30.11**in	SW	**1.0**mph	-	75%	**0.00**in
09:00	**38.5** °F	**30.9** °F	**30.11**in	SW	**1.0**mph	-	74%	**0.00**in
09:10	**39.5** °F	**30.9** °F	**30.11**in	SW	**1.0**mph	-	71%	**0.00**in
09:20	**40.1** °F	**31.1** °F	**30.12**in	SW	**1.0**mph	-	70%	**0.00**in
09:25	**40.5** °F	**31.8** °F	**30.12**in	SW	**1.0**mph	-	71%	**0.00**in
09:35	**41.3** °F	**31.9** °F	**30.11**in	SSE	**1.0**mph	-	69%	**0.00**in
09:40	**41.6** °F	**31.8** °F	**30.11**in	South	**1.0**mph	-	68%	**0.00**in
09:45	**41.9** °F	**31.7** °F	**30.11**in	SSW	**2.0**mph	-	67%	**0.00**in
09:50	**42.2** °F	**31.6** °F	**30.11**in	South	**3.0**mph	-	66%	**0.00**in
10:00	**42.8** °F	**32.2** °F	**30.11**in	SW	**2.0**mph	-	66%	**0.00**in
10:10	**43.6** °F	**32.6** °F	**30.12**in	SSW	**1.0**mph	-	65%	**0.00**in
10:20	**45.1** °F	**33.6** °F	**30.11**in	SSW	**2.0**mph	-	64%	**0.00**in
10:30	**46.2** °F	**33.5** °F	**30.11**in	SSW	**2.0**mph	-	61%	**0.00**in
10:40	**47.0** °F	**33.8** °F	**30.11**in	South	**2.0**mph	-	60%	**0.00**in
10:50	**47.6** °F	**33.1** °F	**30.10**in	SSW	**3.0**mph	-	57%	**0.00**in
11:00	**47.6** °F	**33.5** °F	**30.10**in	SSW	**2.0**mph	-	58%	**0.00**in
11:10	**48.0** °F	**33.9** °F	**30.09**in	SSW	**2.0**mph	-	58%	**0.00**in
11:20	**48.8** °F	**34.7** °F	**30.09**in	SSW	**2.0**mph	-	58%	**0.00**in
11:30	**49.9** °F	**34.4** °F	**30.09**in	SSW	**1.0**mph	-	55%	**0.00**in
11:35	**50.5** °F	**34.5** °F	**30.09**in	SSW	**2.0**mph	-	54%	**0.00**in
11:45	**52.2** °F	**34.1** °F	**30.09**in	South	**3.0**mph	-	50%	**0.00**in
11:50	**53.3** °F	**34.6** °F	**30.08**in	SE	**3.0**mph	-	49%	**0.00**in
12:00	**54.5** °F	**34.1** °F	**30.08**in	SE	**3.0**mph	-	46%	**0.00**in
12:05	**55.1** °F	**34.7** °F	**30.07**in	SE	**3.0**mph	-	46%	**0.00**in
12:10	**55.7** °F	**34.7** °F	**30.07**in	ESE	**3.0**mph	-	45%	**0.00**in
12:20	**55.9** °F	**34.3** °F	**30.07**in	ESE	**4.0**mph	-	44%	**0.00**in
12:25	**56.6** °F	**34.9** °F	**30.07**in	SE	**3.0**mph	-	44%	**0.00**in
12:30	**57.2** °F	**34.9** °F	**30.07**in	SE	**2.0**mph	-	43%	**0.00**in
12:40	**58.6** °F	**36.2** °F	**30.07**in	WNW	**2.0**mph	-	43%	**0.00**in

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
12:50	59.6 °F	35.2 °F	30.05in	WSW	3.0mph	-	40%	0.00in
13:00	60.1 °F	36.3 °F	30.05in	WSW	3.0mph	-	41%	0.00in
13:10	60.7 °F	36.2 °F	30.05in	WSW	3.0mph	-	40%	0.00in
13:20	60.5 °F	36.0 °F	30.05in	SW	4.0mph	-	40%	0.00in
13:25	60.7 °F	36.2 °F	30.05in	NNW	4.0mph	-	40%	0.00in
13:35	60.5 °F	36.0 °F	30.05in	West	4.0mph	-	40%	0.00in
13:40	60.2 °F	35.8 °F	30.05in	WSW	4.0mph	-	40%	0.00in
13:50	60.2 °F	35.8 °F	30.04in	NNW	5.0mph	-	40%	0.00in
14:00	60.7 °F	37.5 °F	30.04in	WNW	4.0mph	-	42%	0.00in
14:10	60.9 °F	36.4 °F	30.04in	NW	4.0mph	-	40%	0.00in
14:20	61.3 °F	36.1 °F	30.04in	NW	3.0mph	-	39%	0.00in
14:30	61.8 °F	37.2 °F	30.04in	SW	4.0mph	-	40%	0.00in
14:35	61.8 °F	37.2 °F	30.03in	SSW	5.0mph	-	40%	0.00in
14:45	61.6 °F	38.3 °F	30.03in	WSW	4.0mph	-	42%	0.00in
14:50	61.0 °F	38.3 °F	30.03in	WSW	3.0mph	-	43%	0.00in
14:55	60.5 °F	37.9 °F	30.03in	NW	4.0mph	-	43%	0.00in
15:05	60.1 °F	38.1 °F	30.03in	WSW	3.0mph	-	44%	0.00in
15:10	59.8 °F	39.0 °F	30.03in	WSW	4.0mph	-	46%	0.00in
15:15	59.6 °F	38.8 °F	30.03in	WNW	5.0mph	-	46%	0.00in
15:20	59.6 °F	38.8 °F	30.03in	NW	4.0mph	-	46%	0.00in
15:30	60.4 °F	38.9 °F	30.03in	SSW	3.0mph	-	45%	0.00in
15:40	61.8 °F	39.6 °F	30.03in	WNW	4.0mph	-	44%	0.00in
15:50	62.1 °F	38.7 °F	30.04in	WSW	3.0mph	-	42%	0.00in
16:00	62.1 °F	38.7 °F	30.04in	WSW	2.0mph	-	42%	0.00in
16:05	62.0 °F	39.2 °F	30.04in	NW	2.0mph	-	43%	0.00in
16:10	61.8 °F	39.1 °F	30.04in	West	2.0mph	-	43%	0.00in
16:20	61.8 °F	39.6 °F	30.04in	NW	1.0mph	-	44%	0.00in
16:25	61.6 °F	40.0 °F	30.04in	WNW	2.0mph	-	45%	0.00in
16:30	61.6 °F	40.6 °F	30.04in	SW	1.0mph	-	46%	0.00in
16:40	61.2 °F	40.8 °F	30.04in	North	2.0mph	-	47%	0.00in
16:45	61.0 °F	40.6 °F	30.04in	WNW	1.0mph	-	47%	0.00in
16:50	60.7 °F	40.9 °F	30.04in	West	1.0mph	-	48%	0.00in
17:00	59.9 °F	40.7 °F	30.04in	WSW	2.0mph	-	49%	0.00in
17:10	59.0 °F	40.9 °F	30.06in	WNW	3.0mph	-	51%	0.00in
17:20	58.3 °F	41.2 °F	30.06in	WSW	2.0mph	-	53%	0.00in
17:30	57.5 °F	41.0 °F	30.06in	WNW	1.0mph	-	54%	0.00in
17:40	56.7 °F	40.7 °F	30.06in	NW	2.0mph	-	55%	0.00in
17:50	56.0 °F	40.5 °F	30.07in	NW	1.0mph	-	56%	0.00in
17:55	55.9 °F	40.4 °F	30.07in	NW	1.0mph	-	56%	0.00in
18:05	55.6 °F	40.1 °F	30.08in	NNW	1.0mph	-	56%	0.00in
18:10	55.3 °F	39.9 °F	30.08in	Calm		-	56%	0.00in
18:20	54.8 °F	39.4 °F	30.08in	Calm		-	56%	0.00in
18:30	54.2 °F	39.7 °F	30.08in	Calm		-	58%	0.00in

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
18:40	**53.8** °F	**39.8** °F	**30.08**in	Calm		-	59%	**0.00**in
18:45	**53.5** °F	**39.5** °F	**30.08**in	Calm		-	59%	**0.00**in
18:55	**52.8** °F	**39.7** °F	**30.09**in	Calm		-	61%	**0.00**in
19:05	**52.3** °F	**40.1** °F	**30.09**in	Calm		-	63%	**0.00**in
19:15	**51.0** °F	**40.8** °F	**30.09**in	Calm		-	68%	**0.00**in
19:20	**49.9** °F	**40.5** °F	**30.09**in	Calm		-	70%	**0.00**in
19:30	**48.6** °F	**40.3** °F	**30.09**in	Calm		-	73%	**0.00**in
19:35	**48.0** °F	**40.8** °F	**30.10**in	Calm		-	76%	**0.00**in
19:40	**47.3** °F	**40.8** °F	**30.10**in	Calm		-	78%	**0.00**in
19:50	**46.1** °F	**40.3** °F	**30.11**in	Calm		-	80%	**0.00**in
20:00	**45.7** °F	**40.2** °F	**30.11**in	Calm		-	81%	**0.00**in
20:10	**45.4** °F	**40.2** °F	**30.11**in	Calm		-	82%	**0.00**in
20:15	**45.1** °F	**39.9** °F	**30.11**in	Calm		-	82%	**0.00**in
20:20	**45.4** °F	**39.9** °F	**30.11**in	Calm		-	81%	**0.00**in
20:30	**45.7** °F	**40.2** °F	**30.11**in	Calm		-	81%	**0.00**in
20:40	**45.4** °F	**40.2** °F	**30.11**in	Calm		-	82%	**0.00**in
20:50	**45.7** °F	**40.2** °F	**30.12**in	SSW	**1.0**mph	-	81%	**0.00**in
21:00	**45.5** °F	**40.0** °F	**30.12**in	SW	**2.0**mph	-	81%	**0.00**in
21:10	**45.2** °F	**40.0** °F	**30.12**in	Calm		-	82%	**0.00**in
21:20	**45.1** °F	**39.9** °F	**30.12**in	Calm		-	82%	**0.00**in
21:25	**44.9** °F	**40.0** °F	**30.12**in	Calm		-	83%	**0.00**in
21:30	**44.6** °F	**39.8** °F	**30.12**in	Calm		-	83%	**0.00**in
21:40	**44.5** °F	**40.0** °F	**30.12**in	Calm		-	84%	**0.00**in
21:50	**44.3** °F	**39.8** °F	**30.13**in	Calm		-	84%	**0.00**in
22:00	**44.3** °F	**40.1** °F	**30.13**in	Calm		-	85%	**0.00**in
22:10	**44.5** °F	**40.0** °F	**30.13**in	Calm		-	84%	**0.00**in
22:20	**44.3** °F	**40.1** °F	**30.12**in	Calm		-	85%	**0.00**in
22:30	**44.1** °F	**40.2** °F	**30.12**in	Calm		-	86%	**0.00**in
22:35	**44.2** °F	**40.3** °F	**30.12**in	Calm		-	86%	**0.00**in
22:40	**44.6** °F	**40.1** °F	**30.12**in	Calm		-	84%	**0.00**in
22:50	**45.7** °F	**40.2** °F	**30.13**in	SW	**1.0**mph	-	81%	**0.00**in
22:55	**46.1** °F	**40.3** °F	**30.13**in	Calm		-	80%	**0.00**in
23:05	**45.5** °F	**40.0** °F	**30.13**in	Calm		-	81%	**0.00**in
23:10	**44.9** °F	**39.7** °F	**30.13**in	Calm		-	82%	**0.00**in
23:20	**45.4** °F	**40.2** °F	**30.12**in	Calm		-	82%	**0.00**in
23:30	**46.1** °F	**40.3** °F	**30.12**in	Calm		-	80%	**0.00**in
23:40	**45.8** °F	**40.0** °F	**30.12**in	Calm		-	80%	**0.00**in
23:45	**45.5** °F	**40.3** °F	**30.12**in	Calm		-	82%	**0.00**in
23:55	**44.9** °F	**40.0** °F	**30.12**in	Calm		-	83%	**0.00**in

Comma Delimited File

History for KNHPETER3

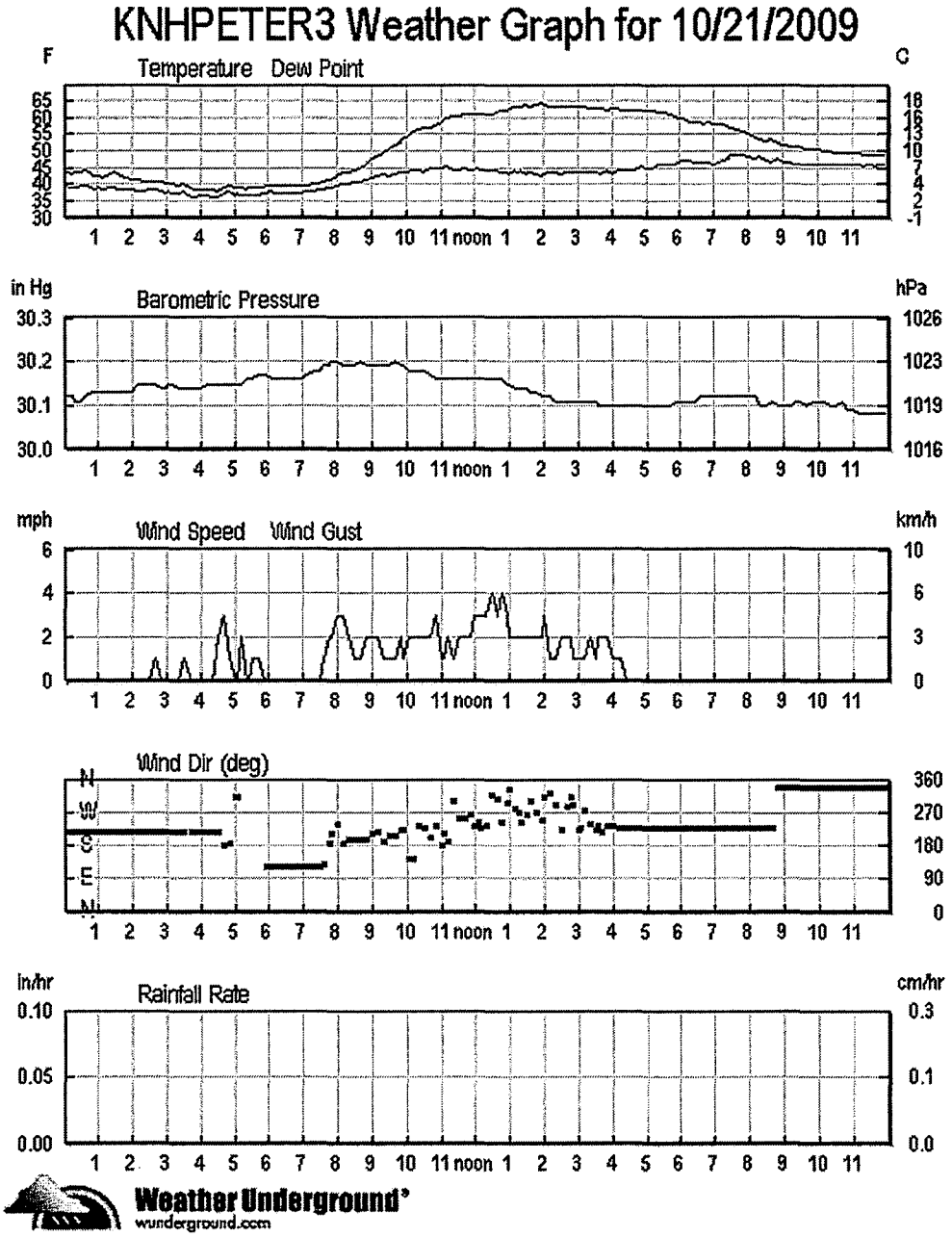
Region 14 ATC/ConVal HS, Peterborough, NH — Current Conditions

Daily Summary for October 21, 2009

	Current:	High:	Low:	Average:
Temperature:	**31.9** °F	**65.2** °F	**38.8** °F	**51.9** °F
Dew Point:	**31.9** °F	**49.7** °F	**36.7** °F	**43.0** °F
Humidity:	100%	93%	45%	74%
Wind Speed:	**5.0**mph	**4.0**mph	-	**0.8**mph
Wind Gust:	-	**0.0**mph	-	-
Wind:	North	-	-	WSW
Pressure:	**29.50**in	**30.20**in	**30.08**in	-
Precipitation:	**0.00**in			

Statistics for the rest of the month:

	High:	Low:	Average:
Temperature:	**71.5** °F	**23.3** °F	**45.8** °F
Dew Point:	**64.0** °F	**11.2** °F	**38.4** °F
Humidity:	100.0%	18.0%	77.7%
Wind Speed:	**13.0**mph from the SW	-	**2.0**mph
Wind Gust:	**0.0**mph from the North	-	-
Wind:	-	-	SSW
Pressure:	**30.39**in	**29.34**in	-
Precipitation:	**5.51**in		



Tabular Data for October 21, 2009

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
00:00	**44.5** °F	**40.0** °F	**30.12**in	Calm		-	84%	**0.00**in
00:05	**44.2** °F	**40.0** °F	**30.12**in	Calm		-	85%	**0.00**in
00:10	**44.1** °F	**39.9** °F	**30.12**in	Calm		-	85%	**0.00**in
00:15	**43.9** °F	**39.7** °F	**30.12**in	Calm		-	85%	**0.00**in
00:20	**44.1** °F	**39.9** °F	**30.11**in	Calm		-	85%	**0.00**in
00:25	**44.2** °F	**39.7** °F	**30.11**in	Calm		-	84%	**0.00**in
00:30	**44.5** °F	**40.0** °F	**30.11**in	Calm		-	84%	**0.00**in
00:40	**44.8** °F	**40.0** °F	**30.12**in	Calm		-	83%	**0.00**in
00:50	**43.8** °F	**39.6** °F	**30.13**in	Calm		-	85%	**0.00**in

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
00:55	**43.3** °F	**39.4** °F	**30.13**in	Calm		-	86%	**0.00**in
01:00	**43.1** °F	**39.5** °F	**30.13**in	Calm		-	87%	**0.00**in
01:10	**42.8** °F	**39.2** °F	**30.13**in	Calm		-	87%	**0.00**in
01:20	**43.8** °F	**39.9** °F	**30.13**in	Calm		-	86%	**0.00**in
01:30	**44.1** °F	**39.6** °F	**30.13**in	Calm		-	84%	**0.00**in
01:35	**43.6** °F	**39.4** °F	**30.13**in	Calm		-	85%	**0.00**in
01:40	**43.3** °F	**39.4** °F	**30.13**in	Calm		-	86%	**0.00**in
01:50	**42.8** °F	**39.2** °F	**30.13**in	Calm		-	87%	**0.00**in
02:00	**41.9** °F	**38.9** °F	**30.13**in	Calm		-	89%	**0.00**in
02:10	**41.8** °F	**38.8** °F	**30.15**in	Calm		-	89%	**0.00**in
02:20	**41.2** °F	**38.5** °F	**30.15**in	Calm		-	90%	**0.00**in
02:30	**41.5** °F	**39.1** °F	**30.15**in	Calm		-	91%	**0.00**in
02:40	**41.6** °F	**38.9** °F	**30.15**in	SW	**1.0**mph	-	90%	**0.00**in
02:50	**41.5** °F	**38.8** °F	**30.14**in	Calm		-	90%	**0.00**in
03:00	**40.9** °F	**38.2** °F	**30.14**in	Calm		-	90%	**0.00**in
03:05	**40.8** °F	**38.4** °F	**30.15**in	Calm		-	91%	**0.00**in
03:10	**40.6** °F	**37.9** °F	**30.15**in	Calm		-	90%	**0.00**in
03:20	**40.5** °F	**38.1** °F	**30.14**in	Calm		-	91%	**0.00**in
03:30	**40.9** °F	**38.5** °F	**30.14**in	SW	**1.0**mph	-	91%	**0.00**in
03:45	**39.8** °F	**36.8** °F	**30.14**in	Calm		-	89%	**0.00**in
03:50	**39.3** °F	**36.9** °F	**30.14**in	Calm		-	91%	**0.00**in
04:00	**39.3** °F	**37.2** °F	**30.14**in	Calm		-	92%	**0.00**in
04:10	**39.2** °F	**37.1** °F	**30.15**in	Calm		-	92%	**0.00**in
04:20	**38.9** °F	**36.8** °F	**30.15**in	Calm		-	92%	**0.00**in
04:30	**38.8** °F	**36.7** °F	**30.15**in	SW	**2.0**mph	-	92%	**0.00**in
04:40	**39.9** °F	**38.0** °F	**30.15**in	South	**3.0**mph	-	93%	**0.00**in
04:50	**40.5** °F	**38.4** °F	**30.15**in	South	**1.0**mph	-	92%	**0.00**in
05:00	**39.9** °F	**37.5** °F	**30.15**in	Calm		-	91%	**0.00**in
05:05	**39.9** °F	**37.8** °F	**30.15**in	Calm		-	92%	**0.00**in
05:10	**39.6** °F	**37.2** °F	**30.15**in	North	**2.0**mph	-	91%	**0.00**in
05:20	**39.3** °F	**37.2** °F	**30.16**in	Calm		-	92%	**0.00**in
05:25	**39.5** °F	**37.4** °F	**30.16**in	Calm		-	92%	**0.00**in
05:30	**39.5** °F	**37.4** °F	**30.16**in	North	**1.0**mph	-	92%	**0.00**in
05:40	**39.5** °F	**37.4** °F	**30.17**in	North	**1.0**mph	-	92%	**0.00**in
05:50	**39.9** °F	**37.8** °F	**30.17**in	Calm		-	92%	**0.00**in
05:55	**40.2** °F	**38.1** °F	**30.17**in	Calm		-	92%	**0.00**in
06:05	**40.5** °F	**38.4** °F	**30.16**in	Calm		-	92%	**0.00**in
06:10	**40.3** °F	**38.2** °F	**30.16**in	Calm		-	92%	**0.00**in
06:15	**40.2** °F	**38.1** °F	**30.16**in	Calm		-	92%	**0.00**in
06:25	**40.3** °F	**38.2** °F	**30.16**in	Calm		-	92%	**0.00**in
06:30	**40.3** °F	**38.2** °F	**30.16**in	Calm		-	92%	**0.00**in
06:40	**40.3** °F	**38.2** °F	**30.16**in	Calm		-	92%	**0.00**in
06:45	**40.2** °F	**38.1** °F	**30.16**in	Calm		-	92%	**0.00**in

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
06:55	40.2 °F	38.1 °F	30.16in	Calm		-	92%	0.00in
07:00	40.3 °F	38.2 °F	30.16in	Calm		-	92%	0.00in
07:05	40.5 °F	38.4 °F	30.17in	Calm		-	92%	0.00in
07:10	40.5 °F	38.4 °F	30.17in	Calm		-	92%	0.00in
07:20	40.6 °F	38.5 °F	30.18in	Calm		-	92%	0.00in
07:30	41.1 °F	39.0 °F	30.18in	Calm		-	92%	0.00in
07:35	41.3 °F	39.2 °F	30.19in	SE	1.0mph	-	92%	0.00in
07:45	42.1 °F	39.7 °F	30.19in	South	2.0mph	-	91%	0.00in
07:50	42.3 °F	39.6 °F	30.20in	SW	2.0mph	-	90%	0.00in
08:00	43.3 °F	40.3 °F	30.20in	WSW	3.0mph	-	89%	0.00in
08:10	44.5 °F	40.9 °F	30.19in	South	3.0mph	-	87%	0.00in
08:20	44.6 °F	40.7 °F	30.19in	SSW	2.0mph	-	86%	0.00in
08:30	44.8 °F	41.2 °F	30.19in	SSW	1.0mph	-	87%	0.00in
08:40	45.4 °F	41.5 °F	30.20in	SSW	1.0mph	-	86%	0.00in
08:50	46.8 °F	42.2 °F	30.19in	SSW	2.0mph	-	84%	0.00in
09:00	48.2 °F	42.6 °F	30.19in	SSW	2.0mph	-	81%	0.00in
09:10	49.2 °F	43.0 °F	30.19in	SW	2.0mph	-	79%	0.00in
09:20	50.2 °F	43.6 °F	30.19in	South	1.0mph	-	78%	0.00in
09:30	51.1 °F	43.4 °F	30.19in	SSW	1.0mph	-	75%	0.00in
09:40	52.2 °F	43.8 °F	30.20in	SSW	1.0mph	-	73%	0.00in
09:50	53.2 °F	44.4 °F	30.19in	SW	2.0mph	-	72%	0.00in
09:55	54.1 °F	44.5 °F	30.19in	SW	1.0mph	-	70%	0.00in
10:05	55.6 °F	44.4 °F	30.18in	SSE	2.0mph	-	66%	0.00in
10:10	56.3 °F	44.7 °F	30.18in	SSE	2.0mph	-	65%	0.00in
10:20	57.2 °F	44.7 °F	30.18in	SW	2.0mph	-	63%	0.00in
10:30	57.5 °F	44.6 °F	30.18in	SW	2.0mph	-	62%	0.00in
10:40	57.8 °F	45.7 °F	30.17in	SSW	2.0mph	-	64%	0.00in
10:50	58.3 °F	45.3 °F	30.16in	SW	3.0mph	-	62%	0.00in
11:00	59.5 °F	45.6 °F	30.16in	South	1.0mph	-	60%	0.00in
11:05	59.9 °F	45.5 °F	30.16in	SSW	1.0mph	-	59%	0.00in
11:10	60.4 °F	46.0 °F	30.16in	South	2.0mph	-	59%	0.00in
11:20	61.2 °F	44.9 °F	30.16in	NW	1.0mph	-	55%	0.00in
11:30	61.0 °F	45.2 °F	30.16in	WSW	2.0mph	-	56%	0.00in
11:40	61.6 °F	45.3 °F	30.16in	WSW	2.0mph	-	55%	0.00in
11:50	62.0 °F	45.2 °F	30.16in	West	2.0mph	-	54%	0.00in
12:00	61.5 °F	45.2 °F	30.16in	WSW	3.0mph	-	55%	0.00in
12:05	61.8 °F	45.5 °F	30.16in	WSW	3.0mph	-	55%	0.00in
12:10	61.8 °F	45.0 °F	30.16in	SW	3.0mph	-	54%	0.00in
12:20	61.8 °F	45.0 °F	30.16in	SW	3.0mph	-	54%	0.00in
12:30	62.0 °F	44.7 °F	30.16in	NW	4.0mph	-	53%	0.00in
12:40	62.6 °F	44.7 °F	30.16in	NW	3.0mph	-	52%	0.00in
12:45	62.9 °F	44.5 °F	30.16in	WSW	4.0mph	-	51%	0.00in
12:55	62.9 °F	44.5 °F	30.15in	WNW	3.0mph	-	51%	0.00in

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
13:00	63.5 °F	44.0 °F	30.15in	NNW	2.0mph	-	49%	0.00in
13:10	64.3 °F	44.7 °F	30.14in	West	2.0mph	-	49%	0.00in
13:15	64.2 °F	44.6 °F	30.14in	West	2.0mph	-	49%	0.00in
13:20	64.3 °F	44.7 °F	30.14in	WSW	2.0mph	-	49%	0.00in
13:30	64.7 °F	44.0 °F	30.14in	West	2.0mph	-	47%	0.00in
13:35	64.3 °F	44.2 °F	30.13in	NW	2.0mph	-	48%	0.00in
13:45	64.5 °F	43.8 °F	30.13in	West	2.0mph	-	47%	0.00in
13:55	65.2 °F	43.3 °F	30.12in	WSW	2.0mph	-	45%	0.00in
14:00	64.7 °F	44.0 °F	30.12in	NW	3.0mph	-	47%	0.00in
14:10	64.2 °F	44.1 °F	30.12in	NW	1.0mph	-	48%	0.00in
14:20	64.3 °F	44.2 °F	30.11in	WNW	1.0mph	-	48%	0.00in
14:30	64.3 °F	43.6 °F	30.11in	SW	2.0mph	-	47%	0.00in
14:40	64.2 °F	44.1 °F	30.11in	WNW	2.0mph	-	48%	0.00in
14:45	64.3 °F	44.2 °F	30.11in	NW	2.0mph	-	48%	0.00in
14:50	64.2 °F	44.1 °F	30.11in	WNW	1.0mph	-	48%	0.00in
15:00	64.2 °F	44.1 °F	30.11in	SW	1.0mph	-	48%	0.00in
15:05	64.2 °F	44.1 °F	30.11in	SW	1.0mph	-	48%	0.00in
15:10	64.0 °F	44.4 °F	30.11in	West	1.0mph	-	49%	0.00in
15:20	63.7 °F	44.2 °F	30.11in	WSW	2.0mph	-	49%	0.00in
15:30	63.7 °F	44.2 °F	30.11in	SW	1.0mph	-	49%	0.00in
15:35	63.5 °F	44.5 °F	30.10in	SW	2.0mph	-	50%	0.00in
15:40	63.5 °F	44.0 °F	30.10in	SW	2.0mph	-	49%	0.00in
15:50	63.2 °F	44.8 °F	30.10in	SW	2.0mph	-	51%	0.00in
16:00	63.4 °F	43.9 °F	30.10in	SW	1.0mph	-	49%	0.00in
16:10	63.4 °F	44.9 °F	30.10in	SW	1.0mph	-	51%	0.00in
16:15	63.2 °F	44.8 °F	30.10in	SW	1.0mph	-	51%	0.00in
16:25	63.1 °F	44.7 °F	30.10in	Calm		-	51%	0.00in
16:30	63.1 °F	44.7 °F	30.10in	Calm		-	51%	0.00in
16:40	63.1 °F	45.2 °F	30.10in	Calm		-	52%	0.00in
16:50	62.9 °F	46.0 °F	30.10in	Calm		-	54%	0.00in
16:55	62.9 °F	46.0 °F	30.10in	Calm		-	54%	0.00in
17:00	62.9 °F	45.5 °F	30.10in	Calm		-	53%	0.00in
17:10	62.7 °F	45.3 °F	30.10in	Calm		-	53%	0.00in
17:20	62.6 °F	46.7 °F	30.10in	Calm		-	56%	0.00in
17:30	62.3 °F	46.4 °F	30.10in	Calm		-	56%	0.00in
17:40	61.8 °F	46.9 °F	30.10in	Calm		-	58%	0.00in
17:50	61.2 °F	46.8 °F	30.11in	Calm		-	59%	0.00in
18:00	60.7 °F	47.2 °F	30.11in	Calm		-	61%	0.00in
18:05	60.5 °F	47.8 °F	30.11in	Calm		-	63%	0.00in
18:15	59.3 °F	47.9 °F	30.11in	Calm		-	66%	0.00in
18:25	59.3 °F	47.5 °F	30.11in	Calm		-	65%	0.00in
18:35	59.2 °F	47.4 °F	30.12in	Calm		-	65%	0.00in
18:40	59.0 °F	47.2 °F	30.12in	Calm		-	65%	0.00in

Time	Temp.	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
18:50	**59.2** °F	**47.0** °F	**30.12**in	Calm		-	64%	**0.00**in
19:00	**59.0** °F	**46.8** °F	**30.12**in	Calm		-	64%	**0.00**in
19:10	**58.9** °F	**47.2** °F	**30.12**in	Calm		-	65%	**0.00**in
19:15	**58.6** °F	**47.7** °F	**30.12**in	Calm		-	67%	**0.00**in
19:25	**58.0** °F	**48.6** °F	**30.12**in	Calm		-	71%	**0.00**in
19:30	**57.6** °F	**49.7** °F	**30.12**in	Calm		-	75%	**0.00**in
19:40	**57.0** °F	**49.5** °F	**30.12**in	Calm		-	76%	**0.00**in
19:50	**56.3** °F	**49.5** °F	**30.12**in	Calm		-	78%	**0.00**in
20:00	**55.7** °F	**48.9** °F	**30.12**in	Calm		-	78%	**0.00**in
20:10	**55.0** °F	**48.6** °F	**30.12**in	Calm		-	79%	**0.00**in
20:20	**54.5** °F	**48.8** °F	**30.10**in	Calm		-	81%	**0.00**in
20:30	**53.6** °F	**47.9** °F	**30.10**in	Calm		-	81%	**0.00**in
20:40	**54.1** °F	**47.4** °F	**30.11**in	Calm		-	78%	**0.00**in
20:50	**53.2** °F	**48.2** °F	**30.10**in	Calm		-	83%	**0.00**in
21:00	**52.5** °F	**47.5** °F	**30.10**in	Calm		-	83%	**0.00**in
21:05	**52.5** °F	**47.5** °F	**30.10**in	Calm		-	83%	**0.00**in
21:15	**52.0** °F	**47.0** °F	**30.10**in	Calm		-	83%	**0.00**in
21:20	**51.9** °F	**46.9** °F	**30.11**in	Calm		-	83%	**0.00**in
21:30	**51.9** °F	**46.6** °F	**30.11**in	Calm		-	82%	**0.00**in
21:40	**51.3** °F	**46.9** °F	**30.10**in	Calm		-	85%	**0.00**in
21:50	**51.4** °F	**46.4** °F	**30.11**in	Calm		-	83%	**0.00**in
22:00	**51.1** °F	**46.7** °F	**30.11**in	Calm		-	85%	**0.00**in
22:10	**50.7** °F	**46.7** °F	**30.11**in	Calm		-	86%	**0.00**in
22:20	**50.5** °F	**46.8** °F	**30.10**in	Calm		-	87%	**0.00**in
22:30	**50.4** °F	**46.7** °F	**30.10**in	Calm		-	87%	**0.00**in
22:40	**50.4** °F	**46.7** °F	**30.11**in	Calm		-	87%	**0.00**in
22:50	**50.4** °F	**46.7** °F	**30.09**in	Calm		-	87%	**0.00**in
23:00	**50.4** °F	**46.7** °F	**30.09**in	Calm		-	87%	**0.00**in
23:10	**49.9** °F	**46.5** °F	**30.08**in	Calm		-	88%	**0.00**in
23:20	**49.6** °F	**46.2** °F	**30.08**in	Calm		-	88%	**0.00**in
23:25	**49.6** °F	**46.5** °F	**30.08**in	Calm		-	89%	**0.00**in
23:30	**49.6** °F	**46.5** °F	**30.08**in	Calm		-	89%	**0.00**in
23:40	**49.4** °F	**46.3** °F	**30.08**in	Calm		-	89%	**0.00**in
23:45	**49.4** °F	**46.6** °F	**30.08**in	Calm		-	90%	**0.00**in
23:55	**49.4** °F	**46.6** °F	**30.08**in	Calm		-	90%	**0.00**in

Comma Delimited File

ATTACHMENT D

Laboratory Analytical Report and COC

Report Date:
04-Nov-09 09:51

☐ Final Report
☐ Re-Issued Report
☑ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Hull & Associates, Inc.
4770 Duke Drive, Suite 300
Mason, OH 45040
Attn: Tracy Edwards

Project: NHBB South Well-Peterborough, NH
Project #: NHB033

Laboratory ID	Client Sample ID	Container	Matrix	Date Sampled	Date Received
SB02803-01	NHB033 SDE4-8:040 A102009	Summa canister	Air	20-Oct-09 08:12	21-Oct-09 17:30
SB02803-02	NHB033 IA1:040 A102009	Summa canister	Air	20-Oct-09 11:32	21-Oct-09 17:30
SB02803-03	NHB033 IA2:055 A102009	Summa canister	Air	20-Oct-09 11:36	21-Oct-09 17:30
SB02803-04	NHB033 IA3:055 A102009	Summa canister	Air	20-Oct-09 11:37	21-Oct-09 17:30
SB02803-05	NHB033 IA4:050 A102009	Summa canister	Air	20-Oct-09 11:38	21-Oct-09 17:30
SB02803-06	NHB033 IA5:055 A102009	Summa canister	Air	20-Oct-09 11:42	21-Oct-09 17:30
SB02803-07	NHB033 IA6:055 A102009	Summa canister	Air	20-Oct-09 11:41	21-Oct-09 17:30
SB02803-08	NHB033 IA7:050 A102009	Summa canister	Air	20-Oct-09 11:41	21-Oct-09 17:30
SB02803-09	NHB033 IA8:045 A102009	Summa canister	Air	20-Oct-09 11:40	21-Oct-09 17:30
SB02803-10	NHB033 IA9:010 A102009	Summa canister	Air	20-Oct-09 11:42	21-Oct-09 17:30
SB02803-11	NHB033 IA10:010 A102009	Summa canister	Air	20-Oct-09 11:38	21-Oct-09 17:30
SB02803-12	NHB033 IA11:040 A102009	Summa canister	Air	20-Oct-09 11:44	21-Oct-09 17:30
SB02803-13	NHB033 SDE1:010 A102009	Summa canister	Air	20-Oct-09 11:52	21-Oct-09 17:30
SB02803-14	NHB033 SDE2:010 A102009	Summa canister	Air	20-Oct-09 11:51	21-Oct-09 17:30
SB02803-15	NHB033 SDE3:010 A102009	Summa canister	Air	20-Oct-09 11:51	21-Oct-09 17:30
SB02803-16	NHB033 SDE4:040 A102009	Summa canister	Air	20-Oct-09 11:50	21-Oct-09 17:30
SB02803-17	NHB033 SDE5:040 A102009	Summa canister	Air	20-Oct-09 11:58	21-Oct-09 17:30
SB02803-18	NHB033 IA4:050 A102009A	Summa canister	Air	20-Oct-09 11:38	21-Oct-09 17:30
SB02803-19	NHB033 SDE3:010 A102009A	Summa canister	Air	20-Oct-09 11:51	21-Oct-09 17:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.
Please note that this report contains 27 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supercedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report is available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

EPA TO-15

EPA TO-15

Samples:

SB02803-01 *NHB033 SDE4-8:040 A102009*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SB02803-02 *NHB033 IA1:040 A102009*

This sample was not able to be analyzed for client requested reporting limits due to high concentrations of other target analytes in the sample.

SB02803-03 *NHB033 IA2:055 A102009*

This sample was not able to be analyzed for client requested reporting limits due to high concentrations of other target analytes in the sample.

SB02803-04 *NHB033 IA3:055 A102009*

This sample was not able to be analyzed for client requested reporting limits due to high concentrations of other target analytes in the sample.

SB02803-05 *NHB033 IA4:050 A102009*

This sample was not able to be analyzed for client requested reporting limits due to high concentrations of other target analytes in the sample.

SB02803-06 *NHB033 IA5:055 A102009*

This sample was not able to be analyzed for client requested reporting limits due to high concentrations of other target analytes in the sample.

SB02803-07 *NHB033 IA6:055 A102009*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SB02803-08 *NHB033 IA7:050 A102009*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SB02803-09 *NHB033 IA8:045 A102009*

This sample was not able to be analyzed for client requested reporting limits due to high concentrations of other target analytes in the sample.

SB02803-10 *NHB033 IA9:010 A102009*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SB02803-11 *NHB033 IA10:010 A102009*

This sample was not able to be analyzed for client requested reporting limits due to high concentrations of other target analytes in the sample.

SB02803-13 *NHB033 SDE1:010 A102009*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

EPA TO-15

Samples:

SB02803-14 *NHB033 SDE2:010 A102009*

This sample was not able to be analyzed for client requested reporting limits due to high concentrations of other target analytes in the sample.

SB02803-15 *NHB033 SDE3:010 A102009*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SB02803-16 *NHB033 SDE4:040 A102009*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SB02803-18 *NHB033 IA4:050 A102009A*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SB02803-19 *NHB033 SDE3:010 A102009A*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 SDE4-8:040 A102009 SB02803-01	NHB033	Air	20-Oct-09 08:12	21-Oct-09

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 27-Oct-09	Dilution: 5		R05	Can pressure: -4			
75-01-4	Vinyl chloride	BRL	2.50	BRL	6.39		EPA TO-15	27-Oct-09	9102067	X
75-35-4	1,1-Dichloroethene	BRL	2.50	BRL	9.92		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL	2.50	BRL	9.91		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	2.50	BRL	10.12		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	2.50	BRL	9.91		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	2.50	BRL	13.64		"	"	"	X
79-01-6	Trichloroethene	11.6	2.50	62.34	13.44		"	"	"	X
127-18-4	Tetrachloroethene	BRL	2.50	BRL	16.95		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*91*	*70-130 %*				"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 IA1:040 A102009	NHB033	Air	20-Oct-09 11:32	21-Oct-09
SB02803-02				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 27-Oct-09	Dilution: 5		GS	Can pressure: -6			
75-01-4	Vinyl chloride	BRL	2.50	BRL	6.39		EPA TO-15	27-Oct-09	9102067	X
75-35-4	1,1-Dichloroethene	BRL	2.50	BRL	9.92		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	256	2.50	1015.10	9.91		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	2.50	BRL	10.12		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	2.50	BRL	9.91		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	2.50	BRL	13.64		"	"	"	X
79-01-6	Trichloroethene	BRL	2.50	BRL	13.44		"	"	"	X
127-18-4	Tetrachloroethene	BRL	2.50	BRL	16.95		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*102*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 IA2:055 A102009 SB02803-03	NHB033	Air	20-Oct-09 11:36	21-Oct-09

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 27-Oct-09	Dilution: 5		GS	Can pressure: -2			
75-01-4	Vinyl chloride	BRL	2.50	BRL	6.39		EPA TO-15	27-Oct-09	9102067	X
75-35-4	1,1-Dichloroethene	BRL	2.50	BRL	9.92		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	218	2.50	864.42	9.91		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	2.50	BRL	10.12		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	2.50	BRL	9.91		"	"	"	X
71-55-6	1,1,1-Trichloroethane	3.40	2.50	18.55	13.64		"	"	"	X
79-01-6	Trichloroethene	3.05	2.50	16.39	13.44		"	"	"	X
127-18-4	Tetrachloroethene	33.6	2.50	227.85	16.95		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*98*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 IA3:055 A102009	NHB033	Air	20-Oct-09 11:37	21-Oct-09
SB02803-04				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 27-Oct-09	Dilution: 4		GS	Can pressure: -5			
75-01-4	Vinyl chloride	BRL	2.00	BRL	5.11		EPA TO-15	27-Oct-09	9102067	X
75-35-4	1,1-Dichloroethene	BRL	2.00	BRL	7.93		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	216	2.00	856.49	7.93		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	2.00	BRL	8.10		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	2.00	BRL	7.93		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	2.00	BRL	10.91		"	"	"	X
79-01-6	Trichloroethene	BRL	2.00	BRL	10.75		"	"	"	X
127-18-4	Tetrachloroethene	BRL	2.00	BRL	13.56		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*96*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 IA4:050 A102009 SB02803-05	NHB033	Air	20-Oct-09 11:38	21-Oct-09

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 27-Oct-09	Dilution: 5		GS	Can pressure: -2			
75-01-4	Vinyl chloride	BRL	2.50	BRL	6.39		EPA TO-15	27-Oct-09	9102067	X
75-35-4	1,1-Dichloroethene	BRL	2.50	BRL	9.92		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	269	2.50	1066.65	9.91		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	2.50	BRL	10.12		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	2.50	BRL	9.91		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	2.50	BRL	13.64		"	"	"	X
79-01-6	Trichloroethene	BRL	2.50	BRL	13.44		"	"	"	X
127-18-4	Tetrachloroethene	8.30	2.50	56.28	16.95		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*109*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 IA5:055 A102009	NHB033	Air	20-Oct-09 11:42	21-Oct-09
SB02803-06				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 27-Oct-09	Dilution: 5		GS	Can pressure: -5			
75-01-4	Vinyl chloride	BRL	2.50	BRL	6.39		EPA TO-15	27-Oct-09	9102067	X
75-35-4	1,1-Dichloroethene	BRL	2.50	BRL	9.92		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	288	2.50	1141.99	9.91		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	2.50	BRL	10.12		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	2.50	BRL	9.91		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	2.50	BRL	13.64		"	"	"	X
79-01-6	Trichloroethene	BRL	2.50	BRL	13.44		"	"	"	X
127-18-4	Tetrachloroethene	4.45	2.50	30.18	16.95		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*98*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 IA6:055 A102009 SB02803-07	NHB033	Air	20-Oct-09 11:41	21-Oct-09

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 27-Oct-09	Dilution: 10		R05	Can pressure: -5			
75-01-4	Vinyl chloride	BRL	5.00	BRL	12.78		EPA TO-15	27-Oct-09	9102067	X
75-35-4	1,1-Dichloroethene	BRL	5.00	BRL	19.84		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	298	5.00	1181.64	19.83		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	5.00	BRL	20.25		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	5.00	BRL	19.83		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	5.00	BRL	27.28		"	"	"	X
79-01-6	Trichloroethene	BRL	5.00	BRL	26.87		"	"	"	X
127-18-4	Tetrachloroethene	BRL	5.00	BRL	33.91		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*99*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 IA7:050 A102009 SB02803-08	NHB033	Air	20-Oct-09 11:41	21-Oct-09

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 27-Oct-09	Dilution: 10		R05	Can pressure: -4			
75-01-4	Vinyl chloride	BRL	5.00	BRL	12.78		EPA TO-15	27-Oct-09	9102067	X
75-35-4	1,1-Dichloroethene	BRL	5.00	BRL	19.84		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	312	5.00	1237.15	19.83		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	5.00	BRL	20.25		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	5.00	BRL	19.83		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	5.00	BRL	27.28		"	"	"	X
79-01-6	Trichloroethene	BRL	5.00	BRL	26.87		"	"	"	X
127-18-4	Tetrachloroethene	BRL	5.00	BRL	33.91		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*98*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 IA8:045 A102009 SB02803-09	NHB033	Air	20-Oct-09 11:40	21-Oct-09

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 27-Oct-09	Dilution: 5		GS	Can pressure: -5			
75-01-4	Vinyl chloride	BRL	2.50	BRL	6.39		EPA TO-15	27-Oct-09	9102067	X
75-35-4	1,1-Dichloroethene	BRL	2.50	BRL	9.92		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	305	2.50	1209.40	9.91		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	2.50	BRL	10.12		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	2.50	BRL	9.91		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	2.50	BRL	13.64		"	"	"	X
79-01-6	Trichloroethene	BRL	2.50	BRL	13.44		"	"	"	X
127-18-4	Tetrachloroethene	4.10	2.50	27.80	16.95		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*109*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 IA9:010 A102009 SB02803-10	NHB033	Air	20-Oct-09 11:42	21-Oct-09

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 27-Oct-09	Dilution: 8		R05	Can pressure: -2			
75-01-4	Vinyl chloride	BRL	4.00	BRL	10.22		EPA TO-15	27-Oct-09	9102067	X
75-35-4	1,1-Dichloroethene	BRL	4.00	BRL	15.87		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	262	4.00	1038.89	15.86		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	4.00	BRL	16.20		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	4.00	BRL	15.86		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	4.00	BRL	21.82		"	"	"	X
79-01-6	Trichloroethene	BRL	4.00	BRL	21.50		"	"	"	X
127-18-4	Tetrachloroethene	4.08	4.00	27.67	27.12		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*98*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 IA10:010 A102009	NHB033	Air	20-Oct-09 11:38	21-Oct-09
SB02803-11				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 27-Oct-09	Dilution: 4		GS	Can pressure: -5			
75-01-4	Vinyl chloride	BRL	2.00	BRL	5.11		EPA TO-15	27-Oct-09	9102067	X
75-35-4	1,1-Dichloroethene	BRL	2.00	BRL	7.93		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	272	2.00	1078.54	7.93		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	2.00	BRL	8.10		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	2.00	BRL	7.93		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	2.00	BRL	10.91		"	"	"	X
79-01-6	Trichloroethene	BRL	2.00	BRL	10.75		"	"	"	X
127-18-4	Tetrachloroethene	2.00	2.00	13.56	13.56		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*114*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 IA11:040 A102009	NHB033	Air	20-Oct-09 11:44	21-Oct-09
SB02803-12				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
EPA TO-15 Low Level		ppbv	Prepared 29-Oct-09		Dilution: 1		Can pressure: -2			
75-01-4	Vinyl chloride	BRL	0.10000	BRL	0.26		EPA TO-15	29-Oct-09	9102267	X
75-35-4	1,1-Dichloroethene	BRL	0.10000	BRL	0.40		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	1.5800	0.10000	6.27	0.40		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	0.10000	BRL	0.40		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	0.10000	BRL	0.40		"	"	"	X
71-55-6	1,1,1-Trichloroethane	0.17000	0.10000	0.93	0.55		"	"	"	X
79-01-6	Trichloroethene	0.11000	0.10000	0.59	0.54		"	"	"	X
127-18-4	Tetrachloroethene	0.76000	0.10000	5.15	0.68		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*102*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 SDE1:010 A102009 SB02803-13	NHB033	Air	20-Oct-09 11:52	21-Oct-09

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 27-Oct-09	Dilution: 1		R05	Can pressure: -3			
75-01-4	Vinyl chloride	BRL	0.500	BRL	1.28		EPA TO-15	27-Oct-09	9102067	X
75-35-4	1,1-Dichloroethene	BRL	0.500	BRL	1.98		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL	0.500	BRL	1.98		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	0.500	BRL	2.02		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	0.500	BRL	1.98		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	0.500	BRL	2.73		"	"	"	X
79-01-6	Trichloroethene	8.74	0.500	46.97	2.69		"	"	"	X
127-18-4	Tetrachloroethene	1.75	0.500	11.87	3.39		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*97*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 SDE2:010 A102009	NHB033	Air	20-Oct-09 11:51	21-Oct-09
SB02803-14				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 28-Oct-09	Dilution: 1		GS	Can pressure: -5			
75-01-4	Vinyl chloride	BRL	0.500	BRL	1.28		EPA TO-15	28-Oct-09	9102164	X
75-35-4	1,1-Dichloroethene	BRL	0.500	BRL	1.98		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	0.840	0.500	3.33	1.98		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	0.500	BRL	2.02		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	0.500	BRL	1.98		"	"	"	X
71-55-6	1,1,1-Trichloroethane	2.54	0.500	13.86	2.73		"	"	"	X
79-01-6	Trichloroethene	9.44	0.500	50.73	2.69		"	"	"	X
127-18-4	Tetrachloroethene	23.8	0.500	161.39	3.39		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*102*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 SDE3:010 A102009 SB02803-15	NHB033	Air	20-Oct-09 11:51	21-Oct-09

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 28-Oct-09	Dilution: 1		R05	Can pressure: -5			
75-01-4	Vinyl chloride	BRL	0.500	BRL	1.28		EPA TO-15	28-Oct-09	9102164	X
75-35-4	1,1-Dichloroethene	BRL	0.500	BRL	1.98		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL	0.500	BRL	1.98		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	0.500	BRL	2.02		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	0.500	BRL	1.98		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	0.500	BRL	2.73		"	"	"	X
79-01-6	Trichloroethene	9.40	0.500	50.52	2.69		"	"	"	X
127-18-4	Tetrachloroethene	1.70	0.500	11.53	3.39		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*95*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 SDE4:040 A102009 SB02803-16	NHB033	Air	20-Oct-09 11:50	21-Oct-09

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 28-Oct-09	Dilution: 1		R05	Can pressure: -5			
75-01-4	Vinyl chloride	BRL	0.500	BRL	1.28		EPA TO-15	28-Oct-09	9102164	X
75-35-4	1,1-Dichloroethene	BRL	0.500	BRL	1.98		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL	0.500	BRL	1.98		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	0.500	BRL	2.02		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	0.500	BRL	1.98		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	0.500	BRL	2.73		"	"	"	X
79-01-6	Trichloroethene	8.76	0.500	47.08	2.69		"	"	"	X
127-18-4	Tetrachloroethene	1.88	0.500	12.75	3.39		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*96*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 SDE5:040 A102009 SB02803-17	NHB033	Air	20-Oct-09 11:58	21-Oct-09

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
EPA TO-15 Low Level		ppbv	Prepared 29-Oct-09	Dilution: 1			Can pressure: -5			
75-01-4	Vinyl chloride	BRL	0.10000	BRL	0.26		EPA TO-15	29-Oct-09	9102267	X
75-35-4	1,1-Dichloroethene	BRL	0.10000	BRL	0.40		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL	0.10000	BRL	0.40		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	0.10000	BRL	0.40		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	0.10000	BRL	0.40		"	"	"	X
71-55-6	1,1,1-Trichloroethane	0.16000	0.10000	0.87	0.55		"	"	"	X
79-01-6	Trichloroethene	0.10000	0.10000	0.54	0.54		"	"	"	X
127-18-4	Tetrachloroethene	2.2800	0.10000	15.46	0.68		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*102*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 IA4:050 A102009A SB02803-18	NHB033	Air	20-Oct-09 11:38	21-Oct-09

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 28-Oct-09	Dilution: 8		R05	Can pressure: -1			
75-01-4	Vinyl chloride	BRL	4.00	BRL	10.22		EPA TO-15	28-Oct-09	9102164	X
75-35-4	1,1-Dichloroethene	BRL	4.00	BRL	15.87		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	254	4.00	1007.17	15.86		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	4.00	BRL	16.20		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	4.00	BRL	15.86		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	4.00	BRL	21.82		"	"	"	X
79-01-6	Trichloroethene	BRL	4.00	BRL	21.50		"	"	"	X
127-18-4	Tetrachloroethene	14.2	4.00	96.29	27.12		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*108*	*70-130 %*				"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NHB033 SDE3:010 A102009A SB02803-19	NHB033	Air	20-Oct-09 11:51	21-Oct-09

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Batch*	*Cert.*
Air Quality Analyses										
Chlorinated VOCs by EPA TO-15		ppbv	Prepared 28-Oct-09	Dilution: 1		R05	Can pressure: -2			
75-01-4	Vinyl chloride	BRL	0.500	BRL	1.28		EPA TO-15	28-Oct-09	9102164	X
75-35-4	1,1-Dichloroethene	BRL	0.500	BRL	1.98		"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL	0.500	BRL	1.98		"	"	"	X
75-34-3	1,1-Dichloroethane	BRL	0.500	BRL	2.02		"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL	0.500	BRL	1.98		"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL	0.500	BRL	2.73		"	"	"	X
79-01-6	Trichloroethene	9.89	0.500	53.15	2.69		"	"	"	X
127-18-4	Tetrachloroethene	1.77	0.500	12.00	3.39		"	"	"	X
Surrogate recoveries:										
460-00-4	*4-Bromofluorobenzene*	*90*	*70-130 %*				"	"	"	

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9102067 - General Air Prep										
Blank (9102067-BLK1)				Prepared & Analyzed: 27-Oct-09						
Vinyl chloride	BRL	0.500	ppbv							
1,1-Dichloroethene	BRL	0.500	ppbv							
trans-1,2-Dichloroethene	BRL	0.500	ppbv							
1,1-Dichloroethane	BRL	0.500	ppbv							
cis-1,2-Dichloroethene	BRL	0.500	ppbv							
1,1,1-Trichloroethane	BRL	0.500	ppbv							
Trichloroethene	BRL	0.500	ppbv							
Tetrachloroethene	BRL	0.500	ppbv							
Surrogate: 4-Bromofluorobenzene	*9.83*		ppbv	*10.0*		*98*	*70-130*			
LCS (9102067-BS1)				Prepared & Analyzed: 27-Oct-09						
Vinyl chloride	10.0		ppbv	10.0		100	70-130			
1,1-Dichloroethene	12.3		ppbv	10.0		123	70-130			
trans-1,2-Dichloroethene	9.93		ppbv	10.0		99	70-130			
1,1-Dichloroethane	9.69		ppbv	10.0		97	70-130			
cis-1,2-Dichloroethene	9.89		ppbv	10.0		99	70-130			
1,1,1-Trichloroethane	9.57		ppbv	10.0		96	70-130			
Trichloroethene	9.80		ppbv	10.0		98	70-130			
Tetrachloroethene	9.34		ppbv	10.0		93	70-130			
Surrogate: 4-Bromofluorobenzene	*9.70*		ppbv	*10.0*		*97*	*70-130*			
Batch 9102164 - General Air Prep										
Blank (9102164-BLK1)				Prepared & Analyzed: 28-Oct-09						
Vinyl chloride	BRL	0.500	ppbv							
1,1-Dichloroethene	BRL	0.500	ppbv							
trans-1,2-Dichloroethene	BRL	0.500	ppbv							
1,1-Dichloroethane	BRL	0.500	ppbv							
cis-1,2-Dichloroethene	BRL	0.500	ppbv							
1,1,1-Trichloroethane	BRL	0.500	ppbv							
Trichloroethene	BRL	0.500	ppbv							
Tetrachloroethene	BRL	0.500	ppbv							
Surrogate: 4-Bromofluorobenzene	*9.14*		ppbv	*10.0*		*91*	*70-130*			
LCS (9102164-BS1)				Prepared & Analyzed: 28-Oct-09						
Vinyl chloride	9.52		ppbv	10.0		95	70-130			
1,1-Dichloroethene	11.5		ppbv	10.0		115	70-130			
trans-1,2-Dichloroethene	9.23		ppbv	10.0		92	70-130			
1,1-Dichloroethane	9.00		ppbv	10.0		90	70-130			
cis-1,2-Dichloroethene	9.15		ppbv	10.0		92	70-130			
1,1,1-Trichloroethane	8.92		ppbv	10.0		89	70-130			
Trichloroethene	8.94		ppbv	10.0		89	70-130			
Tetrachloroethene	8.44		ppbv	10.0		84	70-130			
Surrogate: 4-Bromofluorobenzene	*9.66*		ppbv	*10.0*		*97*	*70-130*			
Duplicate (9102164-DUP1)		**Source: SB02803-18**		Prepared & Analyzed: 28-Oct-09						
Vinyl chloride	BRL	4.00	ppbv		BRL				30	
1,1-Dichloroethene	BRL	4.00	ppbv		BRL				30	
trans-1,2-Dichloroethene	314	4.00	ppbv		254			21	30	
1,1-Dichloroethane	BRL	4.00	ppbv		BRL				30	
cis-1,2-Dichloroethene	BRL	4.00	ppbv		BRL				30	
1,1,1-Trichloroethane	BRL	4.00	ppbv		BRL				30	
Trichloroethene	BRL	4.00	ppbv		BRL				30	
Tetrachloroethene	16.8	4.00	ppbv		14.2			17	30	
Surrogate: 4-Bromofluorobenzene	*9.89*		ppbv	*10.0*		*99*	*70-130*			

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9102164 - General Air Prep										
Batch 9102267 - General Air Prep										
Blank (9102267-BLK1)				Prepared & Analyzed: 29-Oct-09						
Chloromethane	BRL	0.10000	ppbv							
Vinyl chloride	BRL	0.10000	ppbv							
Chloroethane	BRL	0.10000	ppbv							
1,1-Dichloroethene	BRL	0.10000	ppbv							
Methylene chloride	BRL	0.10000	ppbv							
trans-1,2-Dichloroethene	BRL	0.10000	ppbv							
1,1-Dichloroethane	BRL	0.10000	ppbv							
cis-1,2-Dichloroethene	BRL	0.10000	ppbv							
Chloroform	BRL	0.10000	ppbv							
1,2-Dichloroethane	BRL	0.10000	ppbv							
1,1,1-Trichloroethane	BRL	0.10000	ppbv							
Carbon tetrachloride	BRL	0.10000	ppbv							
1,2-Dichloropropane	BRL	0.10000	ppbv							
Trichloroethene	BRL	0.10000	ppbv							
cis-1,3-Dichloropropene	BRL	0.10000	ppbv							
trans-1,3-Dichloropropene	BRL	0.10000	ppbv							
1,1,2-Trichloroethane	BRL	0.10000	ppbv							
Tetrachloroethene	BRL	0.10000	ppbv							
Chlorobenzene	BRL	0.10000	ppbv							
1,1,2,2-Tetrachloroethane	BRL	0.10000	ppbv							
1,3-Dichlorobenzene	BRL	0.10000	ppbv							
1,4-Dichlorobenzene	BRL	0.10000	ppbv							
1,2-Dichlorobenzene	BRL	0.10000	ppbv							
Hexachlorobutadiene	BRL	0.10000	ppbv							
Surrogate: 4-Bromofluorobenzene	*9.9500*		ppbv	*10.0*		*100*	*70-130*			
LCS (9102267-BS1)				Prepared & Analyzed: 29-Oct-09						
Chloromethane	1.7600		ppbv	2.00		88	70-130			
Vinyl chloride	1.8900		ppbv	2.00		94	70-130			
Chloroethane	1.7200		ppbv	2.00		86	70-130			
1,1-Dichloroethene	2.2500		ppbv	2.00		112	70-130			
Methylene chloride	2.1100		ppbv	2.00		106	70-130			
trans-1,2-Dichloroethene	2.2500		ppbv	2.00		112	70-130			
1,1-Dichloroethane	2.0900		ppbv	2.00		104	70-130			
cis-1,2-Dichloroethene	2.3800		ppbv	2.00		119	70-130			
Chloroform	2.0200		ppbv	2.00		101	70-130			
1,2-Dichloroethane	2.1500		ppbv	2.00		108	70-130			
1,1,1-Trichloroethane	2.0900		ppbv	2.00		104	70-130			
Carbon tetrachloride	1.9500		ppbv	2.00		98	70-130			
1,2-Dichloropropane	2.2000		ppbv	2.00		110	70-130			
Trichloroethene	2.3200		ppbv	2.00		116	70-130			
cis-1,3-Dichloropropene	2.5700		ppbv	2.00		128	70-130			
trans-1,3-Dichloropropene	2.0000		ppbv	2.00		100	70-130			
1,1,2-Trichloroethane	2.1300		ppbv	2.00		106	70-130			
Tetrachloroethene	2.2200		ppbv	2.00		111	70-130			
Chlorobenzene	2.1000		ppbv	2.00		105	70-130			
1,1,2,2-Tetrachloroethane	2.0800		ppbv	2.00		104	70-130			
1,3-Dichlorobenzene	2.3600		ppbv	2.00		118	70-130			
1,4-Dichlorobenzene	2.3100		ppbv	2.00		116	70-130			
1,2-Dichlorobenzene	2.2700		ppbv	2.00		114	70-130			
Hexachlorobutadiene	2.0900		ppbv	2.00		104	70-130			
Surrogate: 4-Bromofluorobenzene	*10.160*		ppbv	*10.0*		*102*	*70-130*			

Notes and Definitions

R05	Elevated Reporting Limits due to the presence of high levels of non-target analytes.
GS	This sample was not able to be analyzed for client requested reporting limits due to high concentrations of other target analytes in the sample.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Leja

S802803 C/C

PAGE 1 OF 2

CHAIN OF CUSTODY RECORD

NO. 010650

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REPORT TO: Tracy Edwards

Client: NHBB
Site: NHBB Peterborough NH
Project #: NHB033 Phase: 02. RPT
Samplers: S Sajda

SAMPLE TYPES: A - AIR; C - ASBESTOS; D - SEDIMENT; G - GROUNDWATER; P - PRODUCT; S - SOIL; W - WATER; Z - OTHERS
PRESERVATIVES: A - Cool only, +4 deg. C; B - HNO_3 pH<2; C - H_2SO_4 pH<2; D - NaOH pH>12; E - ZnAcetate + NaOH, pH>9; F - $Na_2S_2O_3$ (0.008%); G - HCL pH<2
METALS: F - FILTERED; N - NOT FILTERED; B - BOTH
All samples are kept at 4 degrees Celsius.

PRESERVATIVES: NA

ANALYSES: VOC TO-15 SIM* - Report PCE, TCE, 1,1,1-TCA, 1,1-DCE, 1,1-DCA, CIS-1,2-DCE, Trans-1,2-DCE, VC ONLY - Please Report incoming can pressure

PROJECT NO.	SAMPLE LOCATION	SAMPLE TYPE & ID	NO. OF CONT.	METALS	COLLECTION DATE/TIME	VOC TO-15 SIM	COMMENTS
NHB033	:SDE4-8:040	:A102009	1	NA	10/20/09 0812	X	S802803-01
NHB033	:IA1:040	:A102009	1	NA	10/20/09 1132		02
NHB033	:IA2:055	:A102009	1	NA	10/20/09 1136		03
NHB033	:IA3:055	:A102009	1	NA	10/20/09 1137		04
NHB033	:IA4:050	:A102009	1	NA	10/20/09 1138		05
NHB033	:IA5:055	:A102009	1	NA	10/20/09 1142		06
NHB033	:IA6:055	:A102009	1	NA	10/20/09 1141		07
NHB033	:IA7:050	:A102009	1	NA	10/20/09 1141		08
NHB033	:IA8:045	:A102009	1	NA	10/20/09 1140		09
NHB033	:IA9:010	:A102009	1	NA	10/20/09 1142		10
NHB033	:IA10:010	:A102009	1	NA	10/20/09 1138		11
NHB033	:IA11:040	:A102009	1	NA	10/20/09 1144	↓	12

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
[signature]	DATE: 10/21/09 TIME: 1345	[signature] 20H	DATE: 10-21-09 TIME: 1445
[signature]	DATE: TIME:	[signature]	DATE: 10/21/09 TIME: 1770
	DATE: TIME:	RECEIVED FOR LAB BY:	DATE: TIME:

COOLER TEMPERATURE AS RECEIVED: °C

DISTRIBUTION: WHITE - LAB USE (MUST BE RETURNED WITH REPORT); YELLOW - LAB USE; PINK - RETAINED BY HULL

Deliver To: SPECTRUM ANALYTICAL
Method of Delivery: Courier
Airbill Number: NA

NOTES: Report - PCE, TCE, 1,1,1-TCA, 1,1-DCE, 1,1-DCA, CIS-1,2-DCE, Trans-1,2-DCE, VC ONLY
- Please report incoming can pressure

TURN AROUND TIME: STD DAYS

SBOL803 CW

Hull & associates, inc.

CHAIN OF CUSTODY RECORD

NO. 010642

☐ Dublin, OH — 6397 Emerald Parkway, Suite 200, Dublin, OH 43016, Phone: (614) 793-8777, Fax: (614) 793-9070

☐ Indianapolis, IN — 6330 E. 75th St., Suite 176, Indianapolis, IN 46250, Phone: (317) 558-0558, Fax: (317) 558-0553

☒ Mason, OH — ~~4940 Parkway Dr. Suite 100~~ 4770 Duke Dr Suite 300, Mason, OH 45040, Phone: (513) 459-9077, Fax: (513) 459-9869

☐ Solon, OH — 6161 Cochran Road, Suite D, Solon, OH 44139, Phone: (440) 519-2555, Fax: (440) 519-2560

☐ Toledo, OH — 3401 Glendale Ave., Suite 300, Toledo, OH 43614, Phone: (419) 385-2018, Fax: (419) 385-5487

REPORT TO: Tracy Edwards

Client: UHBB

Site: NHBB Peterborough NH

Project #: NHB033 Phase: 02. RPT

Samplers: S. Snider

SAMPLE TYPES: A-AIR, C-ASBESTOS, D-SEDIMENT, G-GROUNDWATER, P-PRODUCT, S-SOIL, W-WATER, Z-OTHERS

PRESERVATIVES: A-Cool only, <4 deg. C; B-HNO_3 pH<2; C-H_2SO_4 pH<2; D-NaOH pH>12; E-ZnAcetate + NaOH, pH>9; F-$Na_2S_2O_3$ (0.008%); G-HCl pH <2

METALS: F-FILTERED, N-NOT FILTERED, B-BOTH

All samples are kept at 4 degrees Celsius.

ANALYSES — PRESERVATIVES: NA

PROJECT NO.	SAMPLE LOCATION	SAMPLE TYPE & ID	NO. OF CONT.	METALS	COLLECTION DATE/TIME	VOC TO-15 SIM * - Report - PCE, TCE, 1,1,1-TCA, 1,1-DCE, 1,1-DCA, cis-1,2-DCE, Trans-1,2-DCE, VC ONLY - Please report incoming can pressure	COMMENTS
NHB033	SDE1:010	A102009	1	NA	10/20/09 1152	X	SB0L803-13
NHB033	SDE2:010	A102009	1	NA	10/20/09 1151		14
NHB033	SDE3:010	A102009	1	NA	10/20/09 1151		15
NHB033	SDE4:040	A102009	1	NA	10/20/09 1150		16
NHB033	SDE5:040	A102009	1	NA	10/20/09 1158		17
NHB033	IA4:050	A102009A	1	NA	10/20/09 1138		18
NHB033	SDE3:010	A102009A	1	NA	10/20/09 1151	V	19

RELINQUISHED BY: DATE: 10/21/09 TIME: 1345

RECEIVED BY: DATE: 10/21/09 TIME: 1445

RELINQUISHED BY: DATE: TIME:

RECEIVED BY: DATE: 10/21/09 TIME: 1730

RELINQUISHED BY: DATE: TIME:

RECEIVED FOR LAB BY: DATE: TIME:

COOLER TEMPERATURE AS RECEIVED: °C

DISTRIBUTION: WHITE - LAB USE (MUST BE RETURNED WITH REPORT); YELLOW - LAB USE; PINK - RETAINED BY HULL

Deliver To: SPECTRUM ANALYTICAL INC.

Method of Delivery: Courier

Airbill Number: NA

NOTES: Report - PCE, TCE, 1,1,1-TCA, 1,1-DCE, 1,1-DCA, cis-1,2-DCE, Trans-1,2-DCE, VC only
- Please report incoming can pressure

TURN AROUND TIME: STD DAYS

ATTACHMENT E

MSDS Sheet for Carbo-Sol, Sunnyside Corporation

864

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Date of Prep: 2/1/00

SECTION 1

SUNNYSIDE CORPORATION
225 CARPENTER AVENUE
WHEELING, ILLINOIS 60090 (847) 541-5700
EMERGENCY TELEPHONE (800) 424-9300

FOR INFORMATION: (847) 541-5700
- SUNNYSIDE CORPORATION
- CHEM TREC

Product Class: Chlorinated Hydrocarbon
Trade Name: TRICHLOROETHYLENE (Carbo-Sol)

Manufacturer's Code: 864
NPCA HMIS: HEALTH: 2
FIRE: 1
REACTIVITY: 0

Product Appearance and Odor: Clear, colorless liquid with sweet odor.

SECTION 2 – HAZARDOUS INGREDIENTS

OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT	CAS #	PERCENT	ACGIH TLV (TWA)	ACGIH TLV (STEL)	OSHA PEL (TWA)	OSHA PEL (STEL)	VAPOR PRESSURE
Trichloroethylene	79-01-6		50 PPM	100 PPM	100 PPM	200 PPM	73 MM Hg @ 25° C.

SECTION 3 – EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove to fresh air. If breathing has stopped, administer artificial respiration. Get medical attention immediately.
Eye Contact: Flush eyes immediately with water for at least 15 minutes. Get medical attention.
Skin Contact: Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse. Get medical attention if irritation persists.
Ingestion: Do not induce vomiting. Contact physician or emergency medical facility immediately.
NOTE TO PHYSICIAN: Adrenalin should never be given to persons overexposed to Trichloroethylene.

SECTION 4 – PHYSICAL DATA

The following data represent approximate or typical values. They do not constitute product specifications.

Boiling Range: 188° (F) - I.B.P.
Vapor Density: Heavier than air
Evaporation Rate: Slower than ether
Weight Per Gallon: 12.11 lbs.
% Volatile By Volume: 100%
Solubility in Water: 1.11% (By Weight)

SECTION 5 – FIRE AND EXPLOSION DATA

Flammability Classification: Non-Flammable.

Flash Point: None (Tag. Closed Cup)

Autoignition Temperature: 770° F.

Lower Explosive Limit: 8.0%

Extinguishing Media: Water fog, dry chemical, foam, carbon dioxide. Do not use direct water stream. It will spread fire.

Unusual Fire and Explosion Hazards: Concentrated vapors can be ignited by high intensity ignition source. Thermal decomposition generates toxic and irritating vapors.

Special Fire Fighting Procedures: Firefighters should wear self-contained positive pressure breathing apparatus. Storage containers exposed to fire should be kept cool with a water spray, in order to prevent pressure build-up.

SECTION 6 – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:	50 PPM TWA-8 hour (ACGIH)
EFFECTS OF OVEREXPOSURE	
Acute:	Excessive inhalation may produce symptoms of central nervous system depression ranging from light-headedness to unconsciousness and death. Ingestion may produce gastrointestinal irritation with nausea, vomiting, stomach cramps and diarrhea. Exposure of eyes and skin may produce irritation.
Chronic:	Can cause headache, mental confusion, depression, fatigue, loss of appetite, nausea, vomiting, cough,loss of sense of balance and vision disturbances. Chronic overexposure to Trichloroethylene has caused toxic effects in the liver, lymphatic, kidney and cardiovascular system of laboratory animals. Humans exposed to Trichloroethylene can become intolerant to Ethyl Alcohol, with small quantities causing inebriation and skin blotches.
ROUTES OF EXPOSURE: Inhalation:	Major route of potential exposure. Depresses the central nervous system. Symptoms of overexposure include headache, nausea, vomiting, dizziness, vertigo, fatigue, lightheadedness and coughing.
Skin:	Absorption of liquid through intact skin is a possible but unlikely route of significant exposure. Prolonged or repeated contact may cause irritation, defatting of skin, and dermatitis.
Eyes:	Liquid may cause pain, and slight temporary injury to eyes. Vapors can irritate eyes.
Ingestion:	Unlikely route of exposure. Single dose toxicity low to moderate. If vomiting occurs, Trichloroethylene can be aspirated into lungs, which can cause chemical pneumonia and systemic effects.
Medical Conditions Aggravated by Exposure:	Acute and chronic liver and kidney disease, rhythm disorders of the heart, neuritis and other nervous system disorders.
Carcinogenicity:	The International Agency for Research on Cancer (IARC) has concluded that there is sufficient evidence for the carcinogenicity of Trichloroethylene to experimental animals, and limited evidence for the carcinogenicity of Trichloroethylene to humans, resulting in a classification in Group 2A as a substance probably carcinogenic to humans. The ACGIH has classified Trichloroethylene in category A5 as an agent not suspected as a human carcinogen. Trichloroethylene is listed on the IARC carcinogen list, but not by OSHA or NTP.
Reproductive Toxicity:	Reproductive toxicity tests have been conducted to evaluate the adverse potential effects Trichloroethylene may have on reproduction and offspring of laboratory animals. Results indicate that Trichloroethylene does not cause birth defects in mice, rats or rabbits.
Note to Physician:	Adrenalin should never be given to persons overexposed to Trichloroethylene.

SECTION 7 – REACTIVITY DATA

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat, open flame or electrical arcs.
Incompatibility (Materials to Avoid):	Avoid contacting this product with pure oxygen or alkali metals.
Hazardous Decomposition Products:	At high temperatures this product decomposes to give off hydrogen chloride vapor and small quantities of other toxic and irritating vapors.
Hazardous Polymerization:	Not known to occur.

SECTION 8 – SPILL OR LEAK PROCEDURES

Steps to be taken in case material is spilled or released: Remove ignition sources, evacuate area, avoid breathing vapor or contact with liquid. Recover free liquid or stop leak if possible. Dike large spills and use absorbent material for small spills. Keep spilled material out of sewers, ditches and bodies of water. Avoid contaminating ground and surface waters.

Waste disposal method: Send to a licensed reclaimer or incinerator. Dispose of in accordance with local, state and federal regulations.

SECTION 9 – SAFE HANDLING AND USE INFORMATION

Respiratory Protection:	Not required under normal use. Use a NIOSH/MSHA approved respirator where mist, spray or vapor is generated and exceeds TLV.
Ventilation:	Do not use in closed or confined space. Open doors and/or windows. Use ventilation to maintain exposure levels below 50 PPM (TWA).
Protective Gloves:	Wear solvent-resistant gloves such as Viton, Polyvinyl Alcohol or Polyfluorinated Polyethylene.
Eye Protection:	Chemical goggles and/or face shield should be worn where splashing is possible. Contact lenses should not be worn.
Other Protective Equipment:	Impervious clothing or boots, if needed. Wash contaminated clothing before reuse.

SECTION 10 – SPECIAL PRECAUTIONS

Dept. of Labor Storage Category:	Non-flammable.
Hygienic Practices:	Avoid contact with skin and avoid breathing vapors. Do not eat, drink or smoke in work areas. Wash hands prior to eating, drinking or using rest room.
Additional Precautions:	Do not store where Zinc or Aluminum are used.
Empty Container Warning:	"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition. They may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to supplier or disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 11 – ADDITIONAL INFORMATION

This product contains the following toxic chemical(s) which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

TOXIC CHEMICAL	CAS #	APPROXIMATE % BY WEIGHT
Trichloroethylene	79-01-6	100.00%

SARA Title III Hazard Categories:	Immediate (Acute) Health, Delayed (Chronic) Health
Common Names:	Ethylene Trichloride Trichloroethylene
California Proposition 65:	The State of California has listed Trichloroethylene under Proposition 65 as a chemical known to the state to cause cancer.

TRANSPORTATION (U.S. D.O.T. land transportation in packages of 119 gallons or less)

U.S. D.O.T. Proper Shipping Name:	Trichloroethylene
U.S. D.O.T. Hazard Class & Packing Group:	6.1, PG III
U.S. D.O.T. Identification Number:	UN 1710
U.S. D.O.T. Hazardous Substance:	Trichloroethylene RQ 100 lbs.

Refer to 49 CFR for additional information. Exceptions or exemptions may exist for smaller quantities.

sunnyside

Since 1893 Quality has been our Philosophy!

Search:

This page answers some of most commonly asked questions regarding Sunnyside products.

Frequently Asked Questions

Where can I buy Carbo-Sol?
Carbo-Sol was discontinued in January, 2006 because of changes in air pollution regulations in California and other states. Sunnyside Mineral Spirits, Naphtha or other products may be used for many applications where Carbo-Sol was used. Carefully read and follow all warnings and directions on product labels.

How is Muriatic Acid used to adjust pH of swimming pool water?
Muriatic Acid should be added gradually to lower pH. The amount added depends on pool water capacity and starting pH. Always re-test pH before allowing swimmers to enter pool. Carefully read and follow all label warnings and directions.

How can Muriatic Acid be used to etch a concrete basement floor?
Usually basements cannot be properly ventilated to allow use of Muriatic Acid. Muriatic Acid and its vapors are very corrosive and can damage metal surfaces including heating and cooling systems. Muriatic Acid is also hazardous to people and it must be thoroughly rinsed after use. There are buffered or inhibited acids that are safer for indoor use.

What is the purity of Sunnyside Acetone?
Sunnyside Acetone has a minimum purity of 99.5%, as supplied in original container.

Is Sunnyside Paint Thinner 100% Mineral Spirits?
Sunnyside Paint Thinner contains only Mineral Spirits.

Can Muriatic Acid be used to remove acrylic sealers from cement patios?
Muriatic Acid is not usually effective as a remover for acrylic sealers, or as a paint remover. Whenever possible, sealer manufacturer should be contacted for a solvent recommendation. Sunnyside Xylol often works for removal of acrylic sealers.

What is the difference between Boiled and Raw Linseed Oil?
Boiled Linseed Oil contains metallic driers that accelerate its drying. Boiled Linseed Oil, if applied according to label directions, dries in approximately 24 hours, Raw Linseed Oil dries in 3-4 days. Neither product should be applied to food treatment surfaces, such as cutting boards.

Can Sunnyside Turpentine and Boiled Linseed Oil be used as artist's supplies?
None of Sunnyside's products have been certified by the Consumer Product Safety Commission as artist's materials.

Can I use Acetone or Lacquer Thinner to remove floor adhesive?
No. These products are extremely flammable, and could easily result in a catastrophic flash fire if used for adhesive removal. A better choice is a non flammable product, such as Sunnyside Adhesive Remover. Carefully read and follow all label warnings and directions.

Can I use Muriatic Acid as a drain cleaner?
No. Muriatic Acid may damage plumbing systems, and it should not be used as a drain cleaner. Only products labeled as drain cleaners should be used for this purpose.

Can boiled linseed oil be used to treat a pressure-treated wood deck?
Yes, boiled linseed oil can be used to add "life" to pressure-treated wood. However, it is not a long term outdoor wood treatment. A better choice for water repellency is Sunnyside Clear Wood Protectant or Water Proofer.

What product should I use to clean bare metal surfaces prior to painting?
Sunnyside Acetone will leave a residue free surface in preparation for painting. Carefully read and follow all label warnings and directions.

Can Sunnyside Paint Thinner be used for cleaning paint brushes used with latex paint?

No, Sunnyside Paint Thinner is used only with oil-based paints. Thins-It, part 2 of Sunnyside's 3-part system for use with water based coatings, is recommended.

How do I clean mortar off a new brick wall?
Use a dilute solution of muriatic acid, apply with a soft bristle plastic or rubber brush. Allow a few minutes for acid mixture to work, and then flush with running water. Muriatic Acid is corrosive, follow all label directions and warnings.

What product should I use for thinning an oil-based porch and deck enamel?
Sunnyside Xylol is commonly used for thinning this type of paint. Always consult and follow the paint manufacturer's directions before thinning.

Will linseed oil preserve my outdoor wood furniture?
Linseed Oil (Boiled or Raw) is not a wood preservative, but it will help maintain wood's natural appearance and give some protection from water damage. Outdoor applications should usually be repeated on a yearly basis.

Can Mineral Spirits be used to remove grease or wax build-up on wood surfaces?
Yes, Sunnyside Mineral Spirits will work well for this purpose. Carefully read and follow all label warnings and directions.

What can I use to reduce the stickiness of Linseed Oil if I accidentally over apply it?
Wipe the surface with Sunnyside Mineral Spirits or Paint Thinner. Rags should be disposed of as described on Sunnyside Linseed Oil label; they may be a spontaneous combustion hazard.

What are petroleum distillates?
Petroleum distillates are the fuels and solvents that are produced from the distillation of petroleum. Mineral spirits, naphtha, kerosene and gasoline are examples of petroleum distillates.

What can be used to remove heel and scuff marks from laminated or sheet goods flooring?
Sunnyside Mineral Spirits will work well for this purpose. Provide cross ventilation and follow all label warnings.

Sunnyside Corporation - 225 Carpenter Ave Wheeling, IL 60090 - (847) 541-5700